HSC Minimum Standards

Band 3 Numeracy Goals

Name: _____

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As one would expect, some of the questions cover multiple points on the national standards. The most relevant standard was chosen. Students completing this book of exercises will use multiple skills to complete a single question.

The reliance on arithmetical drills was intentional as it was designed to refresh these skills which may be lacking due to calculator use. By no means should students be expected to complete all the exercises without a calculator. It would be hoped that students will try to answer as many questions as possible by working them out on paper. Turning to the calculator can sometimes be useful to confirm answers especially if decimals and currency are involved.

This booklet is a trial and any constructive criticism is welcomed as it is a work in progress toward assisting students experiencing trouble satisfying the minimum standards now required for HSC accreditation.

Mr C Ayers

Find the sum.

1. 29 + 45 =	2. 50 + 85 =	3. 96 + 26 =	4. 35 + 63 =	5. 22 + 28 =	6. 58 + 52 =	7. 49 + 79 =	8. 52 + 89 =
9. 60 + 11 =	10. 57 + 13 =						

Find the sum.

11. 670 + 208 =	12. 401 + 263 =	13. 551 + 238 =	14. 845 + 112 =	15. 703 + 126 =	16. 650 + 117 =	17. 802 + 182 =
18. 221 + 213 =	19. 625 + 104 =	20. 107 + 222 =				

Find the quotient.

21. $2\overline{)2}$	22. $4\overline{)12}$	23. $4\overline{)24}$	24. $8\overline{)32}$	25. $1\overline{)8}$	26. $5\overline{)10}$	27. $1\overline{)3}$	28. $3\overline{)12}$
29. $3\overline{)21}$	30. $8\overline{)8}$						

Find the product.

31. 15 × 5 =	32. 13 × 4 =	33. 13 × 3 =	34. 9 × 8 =	35. 5 × 6 =	36. 17 × 3 =	37. 9 × 1 =	38. 11 × 4 =
39. 8 × 6 =	40. 13 × 2 =						

Find the product.

41. 92 × 42 =	42. 26 × 43 =	43. 78 × 12 =	44. 21 × 14 =	45. 21 × 55 =	46. 24 × 42 =	47. 95 × 19 =	48. 54 × 73 =

49. 60 × 14 = _____

50. 61 × 29 = _____

Find the difference.

51. 44 - 40 = _____

52. 39 - 24 = _____

53. 29 - 14 = _____

54. 40 - 34 = _____

55. 57 - 35 = _____

56. 25 - 16 = _____

57. 19 - 15 = _____

58. 14 - 13 = _____

59. 93 - 40 = _____

60. 95 - 44 = _____

Find the difference.

61. 400 - 338 = _____

62. 720 - 364 = _____

63. 600 - 479 = _____

64. 780 - 396 = _____

65. 560 - 285 = _____

66. 580 - 498 = _____

67. 700 - 354 = _____

68. 640 - 167 = _____

69. 830 - 269 = _____

70. 240 - 185 = _____

Find the sum.

71. 59 + 28 + 17 + 26 + 29 = ___

72. 31 + 56 + 52 + 81 + 34 = ___

73. 61 + 38 + 80 + 29 + 94 = ___

74. 90 + 81 + 92 + 51 + 12 = ___

75. 37 + 95 + 85 + 94 + 64 = ___

76. 48 + 78 + 65 + 68 + 97 = ___

77. 37 + 94 + 58 + 43 + 99 = ___

78. 18 + 46 + 77 + 29 + 99 = ___

79. 21 + 93 + 58 + 44 + 18 = ___

80. 93 + 77 + 52 + 50 + 57 = ___

Solve.

81. Two apples are in the basket. Four more apples are put in the basket. How many apples are in the basket now?

_____

82. Two red plums and two green plums are in the basket. How many plums are in the basket?

_____

83. Eight peaches were in the basket. More peaches were added to the basket. Now there are 16 peaches. How many peaches were added to the basket?

_____

84. Some oranges were in the basket. Nine more oranges were added to the basket. Now there are 12 oranges. How many oranges were in the basket before more oranges were added?

_____

85. Paul has seven pears and David has six pears. How many pears do Paul and David have together?

_____

86. Marin has eight more marbles than Marin. Marin has nine marbles. How many marbles does Marin have?

_____

87. Eight balls were in the basket. Five are red and the rest are green. How many balls are green?

_____

88. Paul has eight pears and Allan has two pears. How many pears do Paul and Allan have together?

_____

89. 11 apples were in the basket. Three are red and the rest are green. How many apples are green?

_____

90. Six red oranges and five green oranges are in the basket. How many oranges are in the basket?

_____

Solve.

91. You have 54 balls and want to share them equally with six people. How many balls would each person get?

_____

92. Jake is reading a book with 40 pages. If Jake wants to read the same number of pages every day, how many pages would Jake have to read each day to finish in five days?

_____

93. How many three cm pieces of rope can you cut from a rope that is 18 cm long?

_____

94. A box of oranges weighs 35 pounds. If one orange weighs five pounds, how many oranges are there in the box?

_____

95. Jennifer made 72 cookies for a bake sale. She put the cookies in bags, with eight cookies in each bag. How many bags did she have for the bake sale?

_____

96. Audrey ordered seven pizzas. The bill for the pizzas came to $21. What was the cost of each pizza?

_____

97. Donald is reading a book with 21 pages. If Donald wants to read the same number of pages every day, how many pages would Donald have to read each day to finish in seven days?

_____

98. A box of oranges weighs 12 pounds. If one orange weighs six pounds, how many oranges are there in the box?

_____

99. Paul ordered nine pizzas. The bill for the pizzas came to $36. What was the cost of each pizza?

_____

100. Amy made 32 cookies for a bake sale. She put the cookies in bags, with four cookies in each bag. How many bags did she have for the bake sale?

_____

Solve.

101. Janet's garden has six rows of pumpkins. Each row has three pumpkins. How many pumpkins does Janet have in all?

_____

102. Allan can cycle two miles per hour. How far can Allan cycle in three hours?

_____

103. Jake swims two laps every day. How many laps will Jake swim in five days?

_____

104. If there are nine marbles in each box and there are eight boxes, how many marbles are there in total?

_____

105. Steven has nine times more balls than Billy. Billy has two balls. How many balls does Steven have?

_____

106. Marcie's garden has three rows of pumpkins. Each row has six pumpkins. How many pumpkins does Marcie have in all?

_____

107. Steven can cycle nine miles per hour. How far can Steven cycle in three hours?

_____

108. Michele has three times more apples than Donald. Donald has seven apples. How many apples does Michele have?

_____

109. If there are five peaches in each box and there are seven boxes, how many peaches are there in total?

_____

110. Jackie swims six laps every day. How many laps will Jackie swim in two days?

_____

Solve.

111. Marcie has zero fewer oranges than Janet. Janet has eight oranges. How many oranges does Marcie have?

_____

112. Some apples were in the basket. Two apples were taken from the basket. Now there are zero apples. How many apples were in the basket before some of the apples were taken?

_____

113. Seven pears are in the basket. Four are red and the rest are green. How many pears are green?

_____

114. Eight plums were in the basket. Some of the plums were removed from the basket. Now there are five plums. How many plums were removed from the basket?

_____

115. Three balls are in the basket. Two balls are taken out of the basket. How many balls are in the basket now?

_____

116. Donald has seven peaches. Brian has eight peaches. How many more peaches does Brian have than Donald?

_____

117. Six marbles are in the basket. Two marbles are taken out of the basket. How many marbles are in the basket now?

_____

118. Some pears were in the basket. Four pears were taken from the basket. Now there are two pears. How many pears were in the basket before some of the pears were taken?

_____

119. Two apples are in the basket. Two are red and the rest are green. How many apples are green?

_____

120. Sharon has one fewer ball than Marcie. Marcie has six balls. How many balls does Sharon have?

_____

Find the solution.

121. $6 \times 3 + 1 =$ _____

122. $5(5 + 8) =$ _____

123. $(9 + 9)^2 =$ _____

124. $4 + 4 + 3 + 1 =$ _____

125. $(8 + 3) \times (1 + 4) =$ _____

126. $7 + 7 - 1 + 6 =$ _____

127. $6 + 1^2 + 8 + 1^2 =$ _____

128. $(5 + 8)^2 + (2 + 7)^2 =$ _____

129. $5 + 5 + 8 + 6 =$ _____

130. $(6 + 6)^2 + (2 + 2)^2 =$ _____

131. $7 \times (8 + 2) =$ _____

132. $(3 + 5) \times (5 + 2) =$ _____

133. $(7 + 6)^2 + (1 + 6)^2 =$ _____

134. $(4 + 3)(5 + 6) =$ _____

135. $(7 + 2) \times (3 + 2) =$ _____

136. $(5 + 5)(9 + 1) =$ _____

137. $7 + 6^2 =$ _____

138. $3 \times 5 + 8 =$ _____

139. $(5 + 7)^2 + (4 + 2)^2 =$ _____

140. $(1 + 9) \div 7 =$ _____

141. $9 \times 6 + 7 =$ _____

142. $1 \times 1 + 8 =$ _____

143. $(2 + 4) \div 4 =$ _____

144. $(2 + 8) \div 4 =$ _____

145. $9(9 + 2) =$ _____

146. $(4 + 4)^2 + (5 + 7)^2 =$ _____

147. $(7^2) \times (8^2) + 7 =$ _____

148. $5 + 6^2 =$ _____

149. $(3 + 1) \times (4 + 2) =$ _____

150. $(9^2) \times (6^2) + 4 =$ _____

151. $3 + 4^2 + 8 + 6^2 =$ _____

152. $2 + 4 + 3 + 1 =$ _____

153. $6 \times 3 \times 5 =$ _____

154. $6 \times 5 \times 8 =$ _____

155. $(8 + 5)(9 + 4) =$ _____

156. $(3 + 1)^2 + (7 + 4)^2 =$ _____

157. $3 + 9^2 + 3 + 2^2 =$ _____

158. $(1 + 7)^2 + (1 + 5)^2 =$ _____

159. $9 + 5 + 8 + 8 =$ _____

160. $5 \times (1 + 1) =$ _____

161. $3 + 9^2 =$ _____

162. $(9^2) \times (2^2) + 4 =$ _____

163. $(1 + 4) \div 3 =$ _____

164. $(1 + 1)(8 + 5) =$ _____

165. $5(4 + 8) =$ _____

166. $7 \times 5 + 6 =$ _____

167. $9 \times (2 + 9) =$ _____

168. $4 + 1 + 4 + 5 =$ _____

169. $1 \times 2 + 4 =$ _____

170. $(1 + 8)^2 + (7 + 3)^2 =$ _____

171. $(7 + 5)^2 + (6 + 4)^2 =$ _____

172. $3 \times 9 + 4 =$ _____

173. $4 + 8^2 =$ _____

174. $6 \times (2 + 1) =$ _____

175. $(3 + 3)^2 + (5 + 1)^2 =$ _____

176. $2 + 8 + 3 + 2 =$ _____

177. $(5 + 9)^2 =$ _____

178. $1 \times (9 + 9) =$ _____

179. $6 + 7 + 3 + 8 =$ _____

180. $(1 + 2)^2 =$ _____

181. $3 \times (3 + 5) =$ _____

182. $7 + 1 - 8 + 4 =$ _____

183. $(4 + 6) \div 3 =$ _____

184. $6 \times (3 + 3) =$ _____

185. $2 + 9 - 2 + 3 =$ _____

186. $6 \times 1 + 3 =$ _____

187. $(3 + 5)^2 =$ _____

188. $5(7 + 8) =$ _____

189. $4(7 + 4) =$ _____

190. $(6 + 3)^2 =$ _____

191. $1 \times (5 + 8) =$ _____

192. $(5^2) \times (9^2) + 8 =$ _____

193. $7 \times 5 + 4 =$ _____

194. $3 + 7^2 =$ _____

195. $(4 + 7)(9 + 9) =$ _____

196. $(6 + 8) \times (7 + 1) =$ _____

197. $5 \times 4 \times 7 =$ _____

198. $8 + 8^2 =$ _____

199. $(9 + 7) \div 8 =$ _____

200. $8 \times 9 \times 7 =$ _____

201. $1 + 9^2 =$ _____

202. $(7^2) \times (4^2) + 2 =$ _____

203. $(1 + 5) \div 8 =$ _____

204. $2 + 2^2 + 4 + 7^2 =$ _____

205. $2 \times 7 + 5 =$ _____

206. $5 + 8^2 =$ _____

207. $(3 + 6)^2 =$ _____

208. $9 + 4^2 =$ _____

209. $2 + 8 - 3 + 6 =$ _____

210. $(1 + 6)(3 + 9) =$ _____

211. $9 + 5 - 6 + 2 =$ _____

212. $(7 \times 7) - (3 + 8) =$ _____

213. $8 + 1^2 + 9 + 5^2 =$ _____

214. $(9 \times 1) - (7 + 6) =$ _____

215. $1(3 + 1) =$ _____

216. $(8 + 3) \div 1 =$ _____

217. $(7 \times 2) - (2 + 6) =$ _____

218. $6 \times 6 + 8 =$ _____

219. $(5^2) \times (5^2) + 3 =$ _____

220. $9 \times 2 \times 5 =$ _____

Solve the following.

221. Sandra baby-sat for 14 hours over two weeks. She earned $4.00 an hour. What was her gross pay?

_____

222. How much will Sharon earn if she earns $4.80 for each hour worked, works 47 hours, and has payroll deductions of $65.42?

_____

223. How much will Brian earn if he earns $8.20 per hour and works 30 hours?

_____

224. Marin's gross pay is $284.20. After deductions of 27% what is her net pay?

_____

225. If Paul earns $176.40 after deductions of $75.60 and after working 21 hours what is the hourly rate?

_____

226. If Amy earns $253.80 after working 47 hours what is the hourly rate?

_____

227. Steven's net pay is $245.86 after deductions of $73.44. He makes $10.30 per hour. How many hours did he work?

_____

228. What is Adam's net pay if he earns $4.50 for each hour worked, works 11 hours, and has payroll deductions of 20%?

_____

229. Janet's gross pay is $288.60. After deductions of 23% what is her net pay?

_____

230. If Jennifer earns $232.30 after working 23 hours what is the hourly rate?

_____

231. How much will David earn if he earns $14.10 per hour and works 50 hours?

_____

232. What is Paul's net pay if he earns $12.90 for each hour worked, works 28 hours, and has payroll deductions of 20%?

_____

233. If Adam earns $153.09 after deductions of $65.61 and after working 27 hours what is the hourly rate?

_____

234. Ellen baby-sat for 18 hours over two weeks. She earned $4.80 an hour. What was her gross pay?

_____

235. Brian's net pay is $195.99 after deductions of $31.91. He makes $5.30 per hour. How many hours did he work?

_____

236. How much will Marin earn if she earns $11.00 for each hour worked, works 31 hours, and has payroll deductions of $34.10?

_____

237. If Billy earns $263.25 after deductions of $74.25 and after working 25 hours what is the hourly rate?

_____

238. If Amy earns $569.80 after working 37 hours what is the hourly rate?

_____

239. Jackie's gross pay is $152.00. After deductions of 19% what is her net pay?

_____

240. How much will Paul earn if he earns $15.10 per hour and works 46 hours?

_____

Express the currency values in words.

241. $38.94 _____

242. $61.42 _____

243. $3.32 _____

244. $77.17 _____

245. $94.58 _____

246. $63.10 _____

247. $86.58 _____

248. $90.85 _____

249. $19.97 _____

250. $48.86 _____

Solve.

hot dog = $1.20	cola = $1.00
order of French-fries = $0.70	ice cream cone = $1.30
hamburger = $2.40	milk shake = $2.80
deluxe cheeseburger = $3.20	taco = $2.60

251. _____ If Marin wanted to buy a deluxe cheeseburger, a milk shake, and an order of French-fries, how much would it cost her?

252. _____ Steven wants to buy a hamburger. How much will it cost him?

253. _____ Ellen purchases an ice cream cone, a taco, and an order of French-fries. How much change will she get back from $10.00?

254. _____ What is the total cost of a hamburger and a cola if the sales tax is five percent?

255. _____ If Allan buys a hamburger, how much money will he get back if he pays $10.00?

256. _____ What is the total cost of a hamburger, a hot dog, and a deluxe cheeseburger if there is a 5% sales tax?

257. _____ What is the total cost of a milk shake, a cola, and an ice cream cone if there is a 5% sales tax?

258. _____ If Donald wanted to buy a taco and a hot dog, how much would it cost him?

259. _____ What is the total cost of an order of French-fries if the sales tax is five percent?

260. _____ Brian wants to buy an ice cream cone. How much will it cost him?

Compare the fractions.

261. $\frac{5}{8}$ ___ $\frac{2}{8}$ 262. $\frac{3}{4}$ ___ $\frac{1}{4}$ 263. $\frac{4}{5}$ ___ $\frac{2}{5}$ 264. $\frac{2}{3}$ ___ $\frac{1}{3}$ 265. $\frac{4}{6}$ ___ $\frac{3}{6}$ 266. $\frac{1}{8}$ ___ $\frac{6}{8}$ 267. $\frac{2}{6}$ ___ $\frac{5}{6}$

268. $\frac{3}{5}$ ___ $\frac{3}{5}$ 269. $\frac{1}{3}$ ___ $\frac{1}{3}$ 270. $\frac{1}{5}$ ___ $\frac{2}{5}$

Compare the fractions.

271. $\frac{1}{5}$ ___ $\frac{3}{4}$ 272. $\frac{1}{8}$ ___ $\frac{2}{3}$ 273. $\frac{2}{3}$ ___ $\frac{3}{4}$ 274. $\frac{1}{5}$ ___ $\frac{7}{8}$ 275. $\frac{5}{6}$ ___ $\frac{2}{5}$ 276. $\frac{1}{4}$ ___ $\frac{2}{6}$ 277. $\frac{2}{3}$ ___ $\frac{2}{8}$

278. $\frac{3}{5}$ ___ $\frac{3}{4}$ 279. $\frac{4}{6}$ ___ $\frac{1}{3}$ 280. $\frac{2}{8}$ ___ $\frac{2}{5}$

Divide.

281. $6 \div \frac{1}{5} =$ _____ 282. $7 \div \frac{2}{3} =$ _____ 283. $6 \div \frac{1}{6} =$ _____ 284. $7 \div \frac{2}{4} =$ _____

285. $8 \div \frac{1}{4} =$ _____ 286. $4 \div \frac{5}{6} =$ _____ 287. $5 \div \frac{2}{8} =$ _____ 288. $5 \div \frac{1}{5} =$ _____

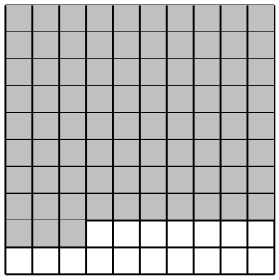
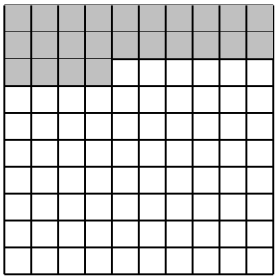
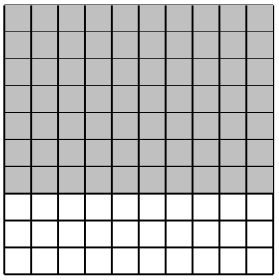
289. $1 \div \frac{2}{3} =$ _____ 290. $5 \div \frac{1}{6} =$ _____

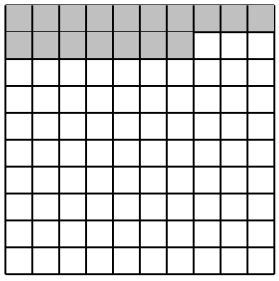
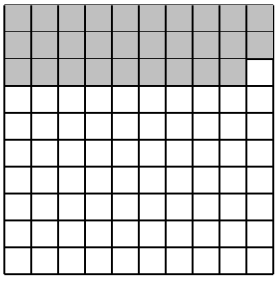
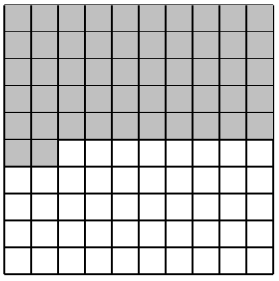
Complete the equivalent fractions.

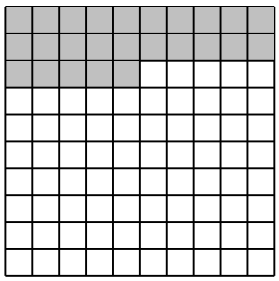
291. $\frac{1}{5} = \frac{\quad}{45}$ 292. $\frac{\quad}{3} = \frac{8}{12}$ 293. $\frac{\quad}{8} = \frac{24}{48}$ 294. $\frac{2}{4} = \frac{\quad}{20}$ 295. $\frac{\quad}{4} = \frac{8}{16}$ 296. $\frac{1}{6} = \frac{\quad}{30}$

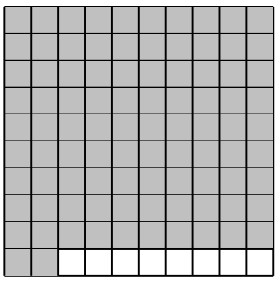
297. $\frac{1}{3} = \frac{\quad}{18}$ 298. $\frac{\quad}{5} = \frac{21}{35}$ 299. $\frac{\quad}{8} = \frac{4}{16}$ 300. $\frac{\quad}{6} = \frac{9}{54}$

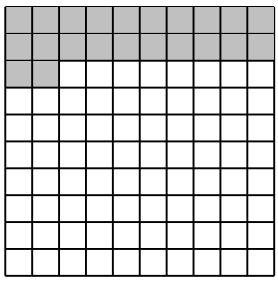
Color the fraction.

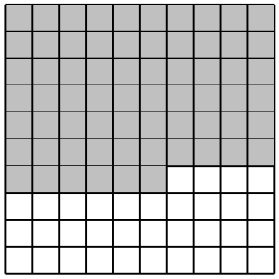
301.  = ___ 302.  = ___ 303.  = ___

304.  = ___ 305.  = ___ 306.  = ___

307.  = ____

308.  = ____

309.  = ____

310.  = ____

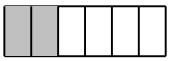
Color the fraction.

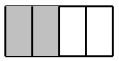
311. = _____

312. = _____

313. = _____

314. = _____

315.  = _____

316.  = _____

317. = _____

318. = _____

319. = _____

320. = _____

Find the sum.

321. $\frac{2}{3} + \frac{2}{3}$ = _____

322. $\frac{1}{5} + \frac{4}{5}$ = _____

323. $\frac{2}{4} + \frac{1}{4}$ = _____

324. $\frac{5}{8} + \frac{2}{8}$ = _____

325. $\frac{3}{6} + \frac{1}{6}$ = _____

326. $\frac{2}{8} + \frac{6}{8}$ = _____

327. $\frac{3}{6} + \frac{4}{6}$ = _____

328. $\frac{1}{4} + \frac{1}{4}$ = _____

329. $\frac{4}{8} + \frac{2}{8}$ = _____

330. $\frac{1}{5} + \frac{3}{5}$ = _____

Convert.

331. $\frac{2}{8}$ = _____

332. $\frac{2}{4}$ = _____

333. $\frac{1}{3}$ = _____

334. $\frac{3}{4}$ = _____

335. $\frac{2}{6}$ = _____

336. $\frac{5}{8}$ = _____

337. $\frac{1}{5}$ = _____

338. $\frac{2}{3}$ = _____

339. $\frac{4}{5}$ = _____

340. $\frac{3}{8}$ = _____

Find the product.

341. $\frac{1}{6} \times \frac{4}{6} =$ ___ 342. $\frac{2}{6} \times \frac{4}{6} =$ ___ 343. $\frac{4}{8} \times \frac{3}{8} =$ ___ 344. $\frac{1}{5} \times \frac{1}{5} =$ ___ 345. $\frac{3}{4} \times \frac{1}{4} =$ ___

346. $\frac{1}{3} \times \frac{1}{3} =$ ___ 347. $\frac{2}{4} \times \frac{3}{4} =$ ___ 348. $\frac{2}{5} \times \frac{4}{5} =$ ___ 349. $\frac{3}{6} \times \frac{4}{6} =$ ___ 350. $\frac{4}{8} \times \frac{4}{8} =$ ___

Find the difference.

351. $\frac{3}{4} - \frac{1}{4} =$ ___ 352. $\frac{2}{3} - \frac{1}{3} =$ ___ 353. $\frac{4}{5} - \frac{2}{5} =$ ___ 354. $\frac{4}{8} - \frac{2}{8} =$ ___ 355. $\frac{5}{6} - \frac{4}{6} =$ ___

356. $\frac{4}{6} - \frac{1}{6} =$ ___ 357. $\frac{3}{5} - \frac{1}{5} =$ ___ 358. $\frac{3}{4} - \frac{2}{4} =$ ___ 359. $\frac{7}{8} - \frac{3}{8} =$ ___ 360. $\frac{4}{5} - \frac{3}{5} =$ ___

Convert.

361. $1\frac{4}{6} =$ ___ 362. $6\frac{6}{8} =$ ___ 363. $2\frac{1}{4} =$ ___ 364. $5\frac{2}{8} =$ ___ 365. $8\frac{1}{6} =$ ___ 366. $2\frac{2}{4} =$ ___

367. $5\frac{1}{5} =$ ___ 368. $8\frac{7}{8} =$ ___ 369. $9\frac{1}{4} =$ ___ 370. $2\frac{4}{5} =$ ___

Calculate.

371. $7\frac{1}{8} + 2\frac{5}{8} =$ ___ 372. $6\frac{1}{3} + 9\frac{2}{3} =$ ___ 373. $7\frac{2}{5} + 2\frac{1}{5} =$ ___ 374. $5\frac{3}{4} + 2\frac{2}{4} =$ ___

375. $8\frac{4}{5} + 6\frac{1}{5} =$ ___ 376. $4\frac{6}{8} + 7\frac{6}{8} =$ ___ 377. $9\frac{3}{6} + 5\frac{1}{6} =$ ___ 378. $8\frac{3}{4} + 8\frac{1}{4} =$ ___

379. $4\frac{1}{3} + 7\frac{2}{3} =$ ___ 380. $2\frac{7}{8} + 9\frac{2}{8} =$ ___

Multiply.

381. $\frac{4}{6}$ of 8 = _____ 382. $\frac{4}{5}$ of 8 = _____ 383. $\frac{6}{8}$ of 6 = _____ 384. $\frac{2}{8}$ of 6 = _____

385. $\frac{2}{3}$ of 6 = _____ 386. $\frac{2}{6}$ of 2 = _____ 387. $\frac{3}{5}$ of 2 = _____ 388. $\frac{1}{4}$ of 1 = _____

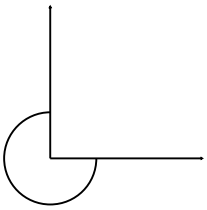
389. $\frac{1}{4}$ of 3 = _____ 390. $\frac{3}{8}$ of 6 = _____

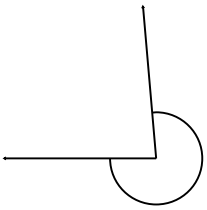
Simplify the fractions.

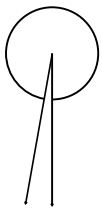
391. $\frac{32}{40} =$ ___ 392. $\frac{4}{12} =$ ___ 393. $\frac{4}{32} =$ ___ 394. $\frac{12}{16} =$ ___ 395. $\frac{8}{24} =$ ___ 396. $\frac{10}{15} =$ ___

397. $\frac{6}{48} =$ ___ 398. $\frac{9}{15} =$ ___ 399. $\frac{3}{9} =$ ___ 400. $\frac{28}{42} =$ ___

Classify and measure the angles.

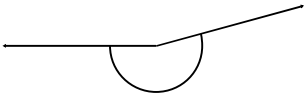
401. 

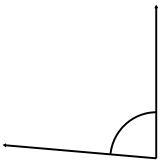
402. 

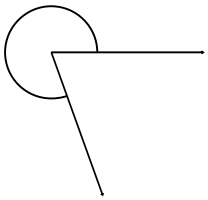
403. 

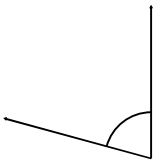
404.

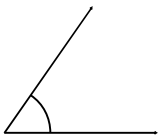
405.

406. 

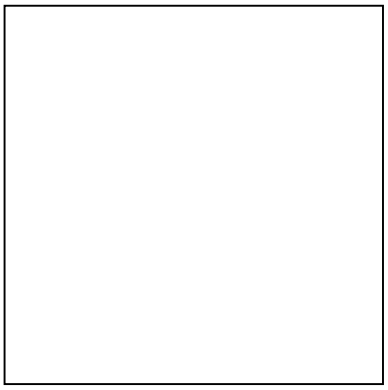
407. 

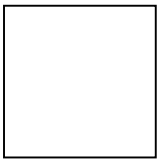
408. 

409. 

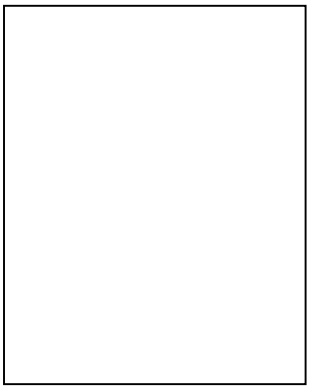
410. 

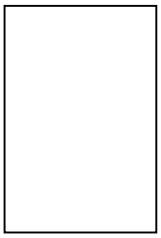
Measure the rectangles.

411. 

412. 

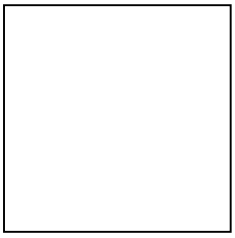
413.

414. 

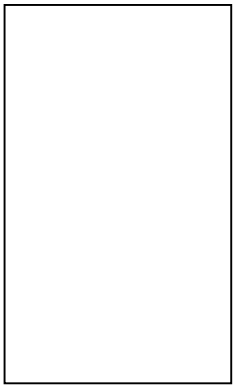
415. 

416.

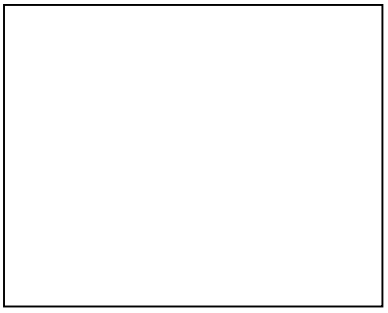
417.

418. 

419.

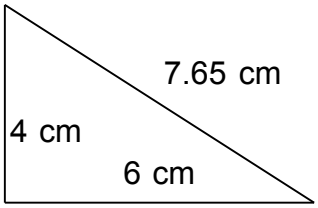


420.

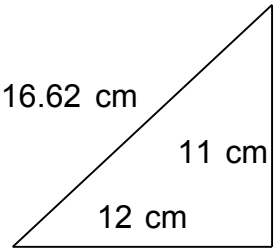


Find the perimeter and area.

421.



422.



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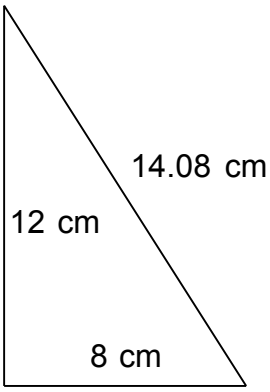
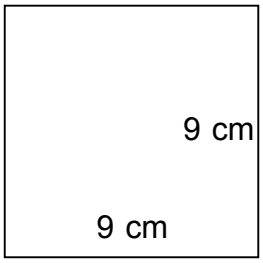
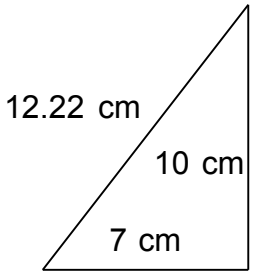


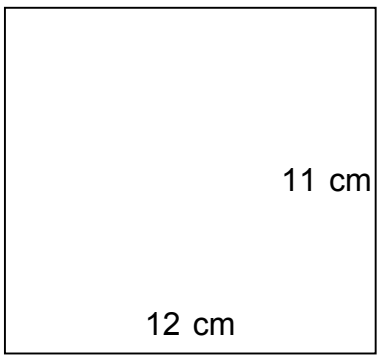
424.



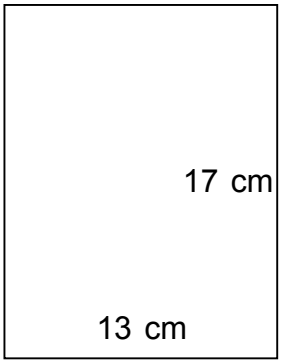
425.



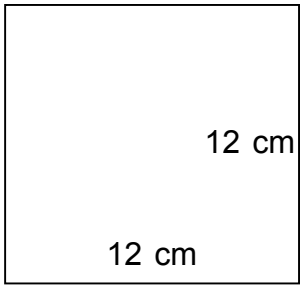
426.



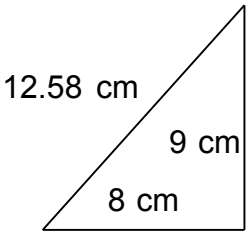
427.



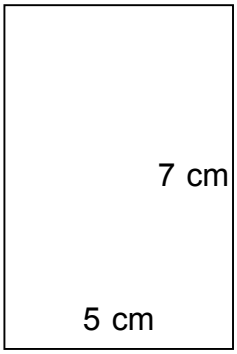
428.



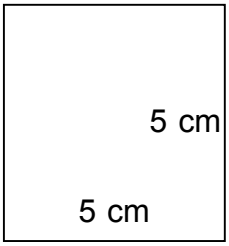
429.



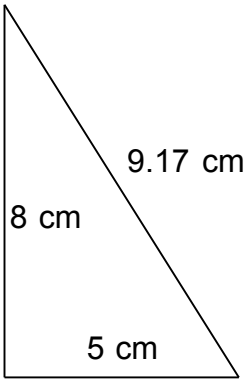
430.



431.



432.



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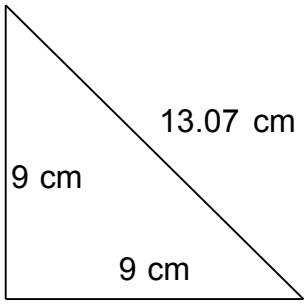

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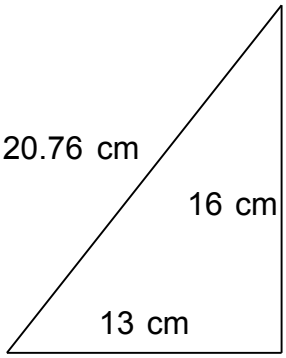
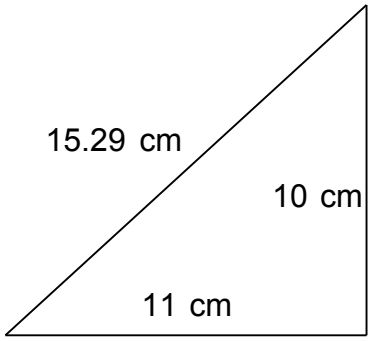
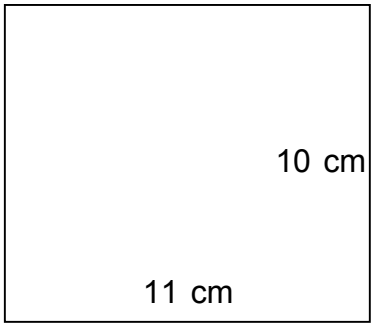


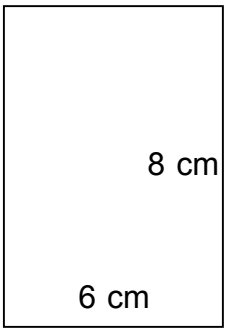
435.



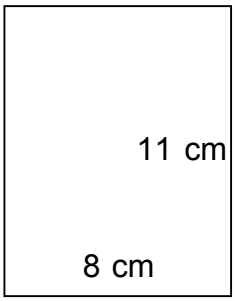
436.



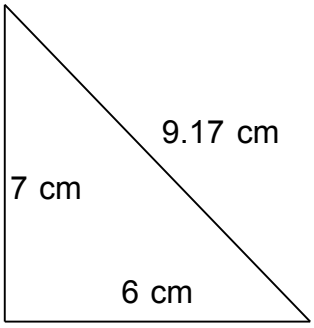
437.



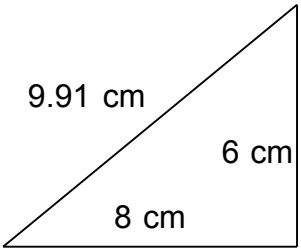
438.



439.

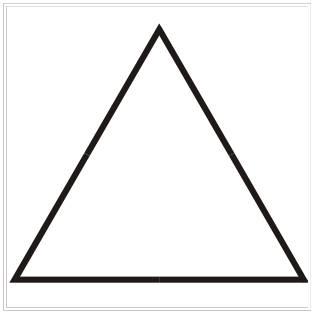


440.



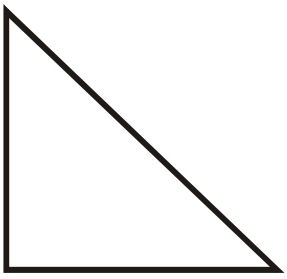
Identify the polygons.

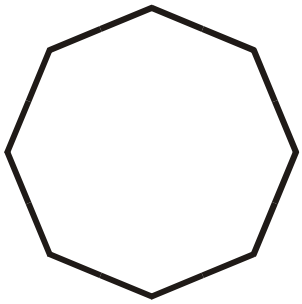
441.

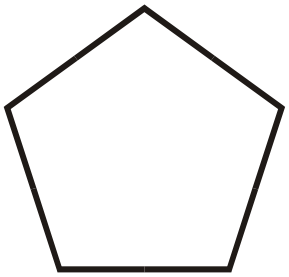


442.

443.

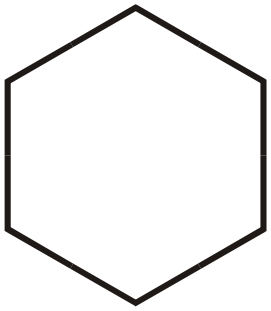


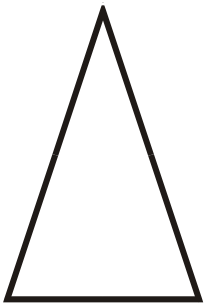
444. 

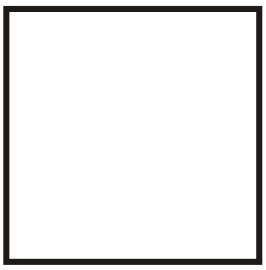
445. 

446.

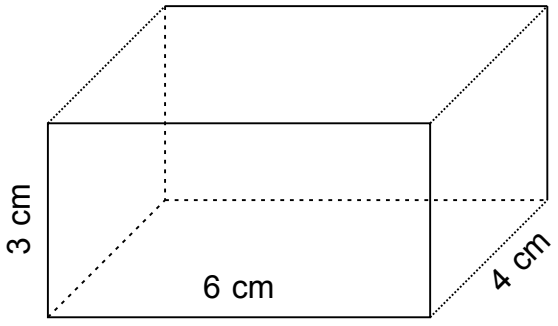
447.

448. 

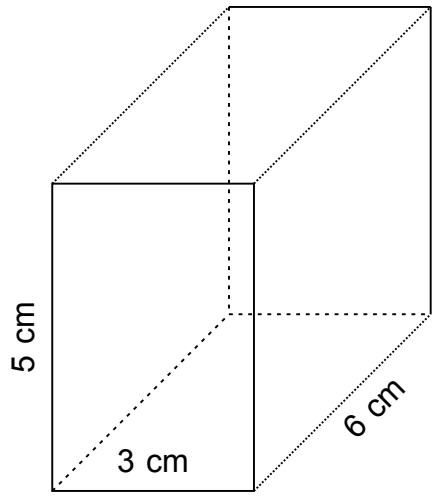
449. 

450. 

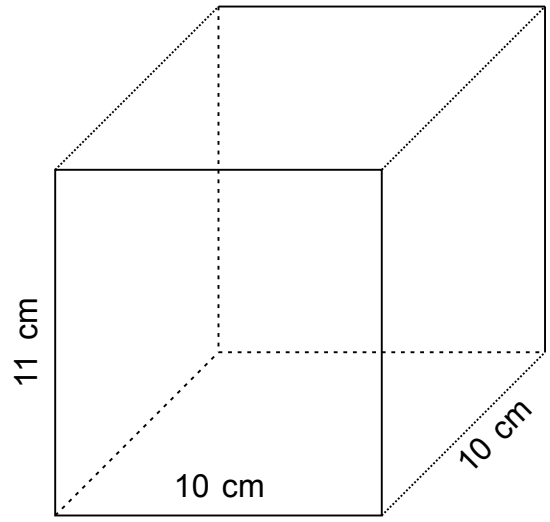
Find the volume.

451. 

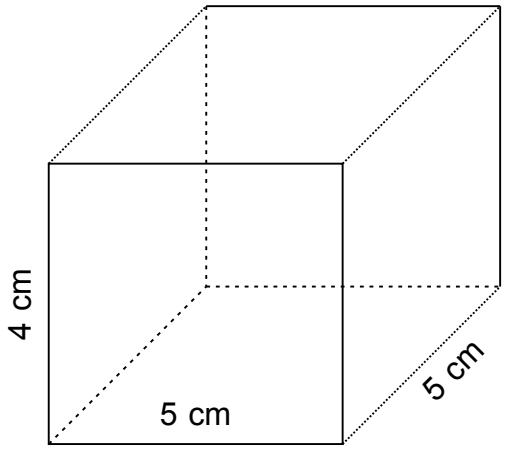
452.



453.



454.



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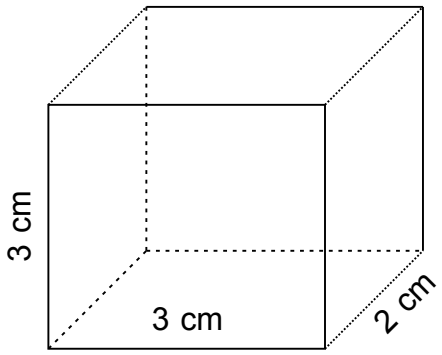

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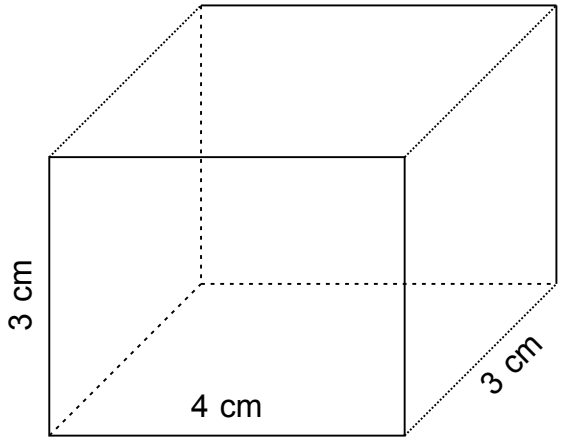
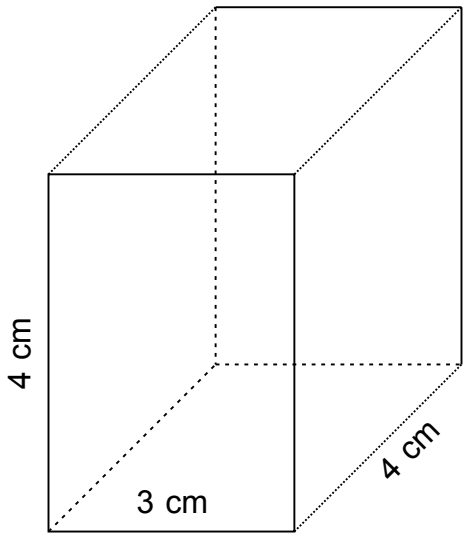
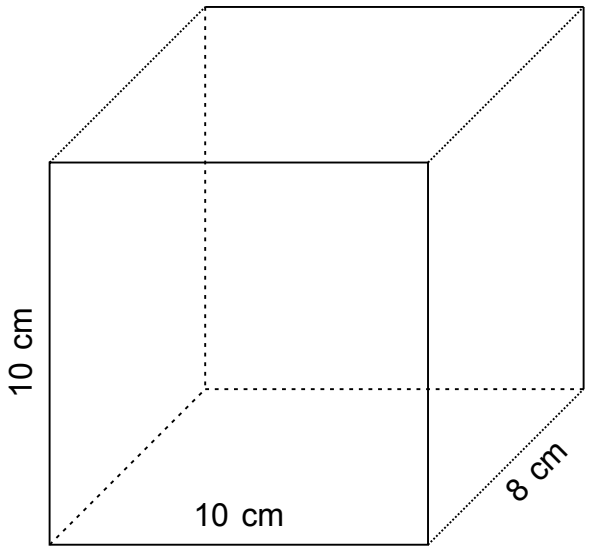


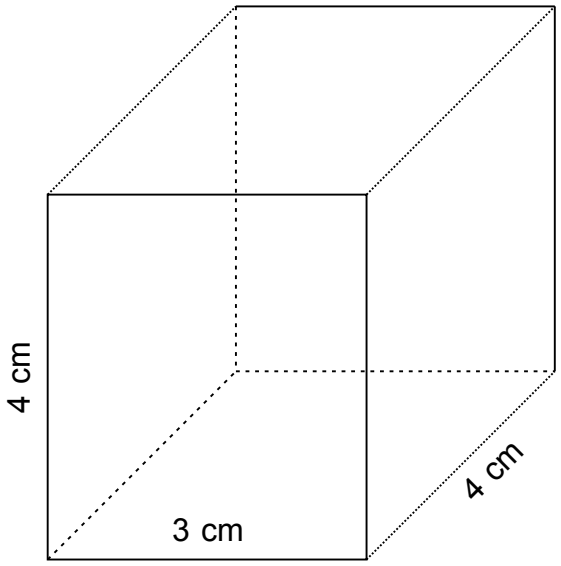
457.



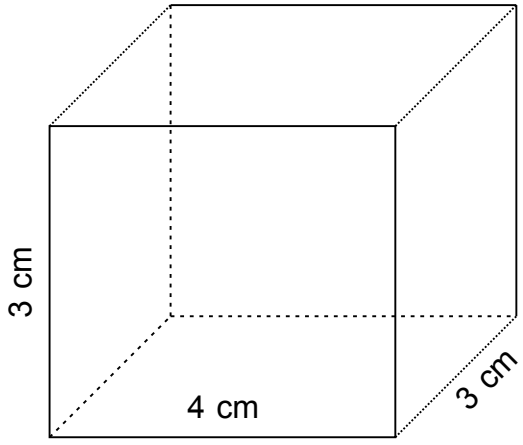
458.



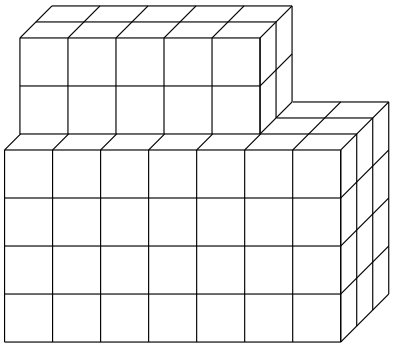
459.

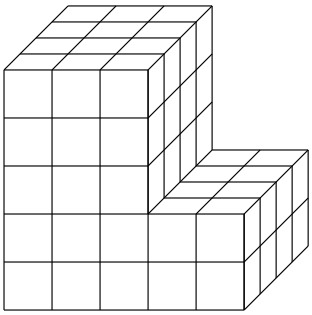


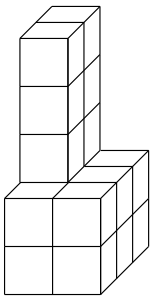
460.

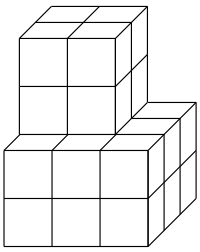


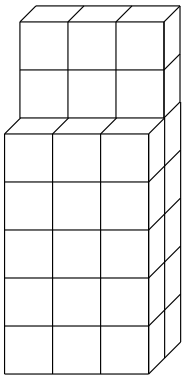
Determine the number of cubes.

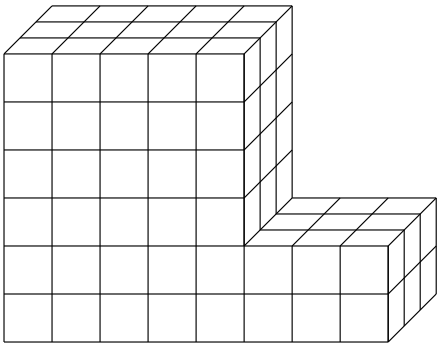
461. 

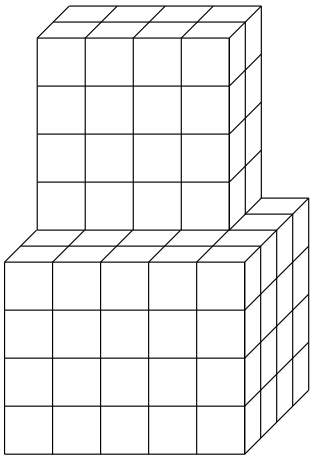
462. 

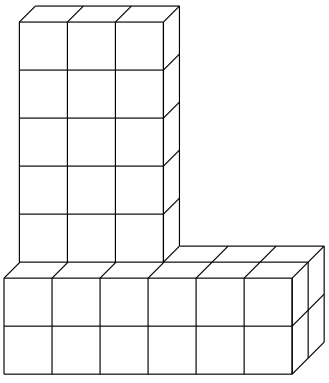
463. 

464. 

465. 

466. 

467. 

468. 

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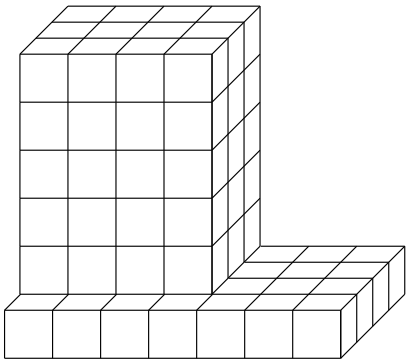

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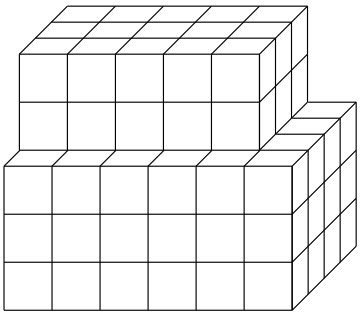
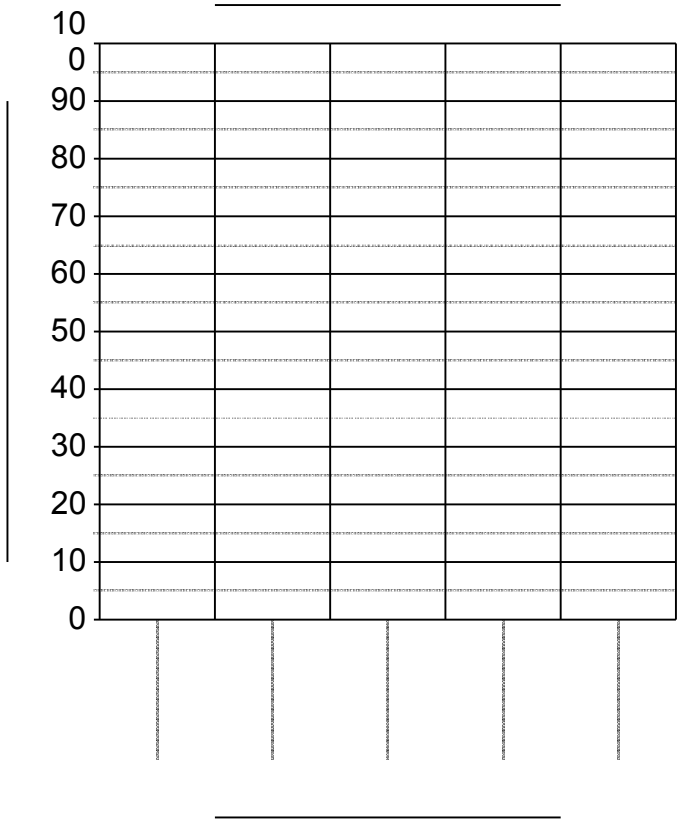


Complete the graph.

471.

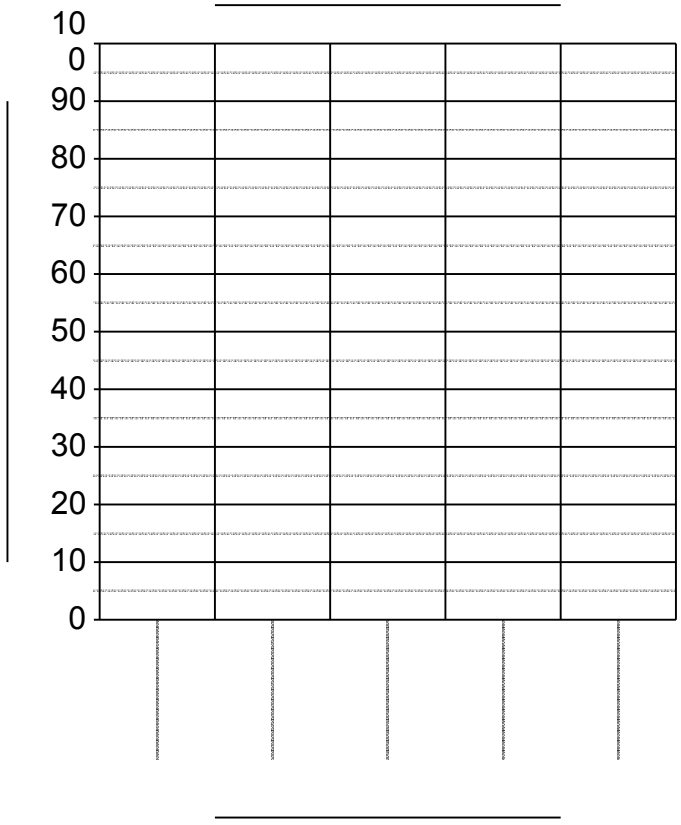


Graph Title

X-Axis Title	Y-Axis Title
Peaches	29
Apples	50
Pears	61
Oranges	61
Plums	45

Complete the graph.

472.

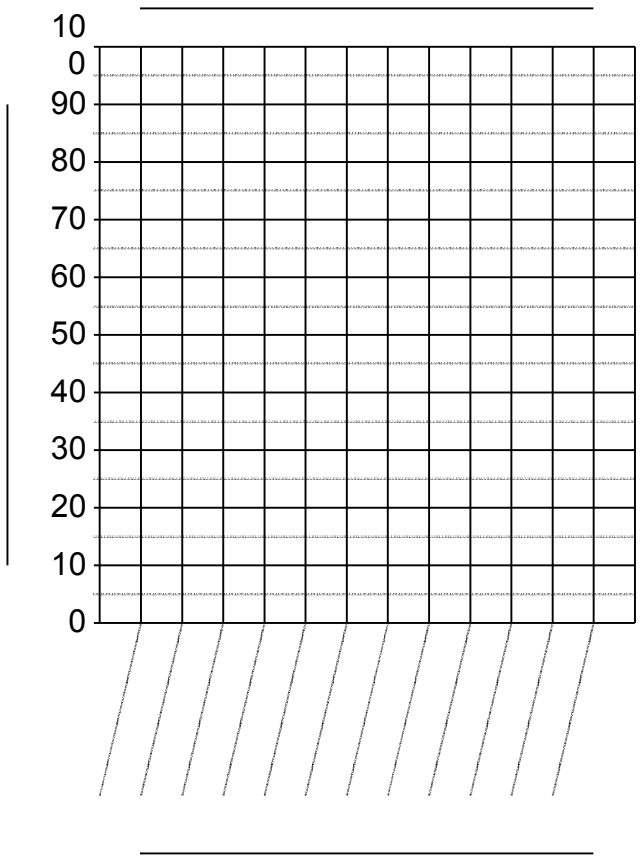


Graph Title

X-Axis Title	Y-Axis Title
Peaches	22
Apples	35
Pears	59
Oranges	73
Plums	43

Complete the graph.

473.

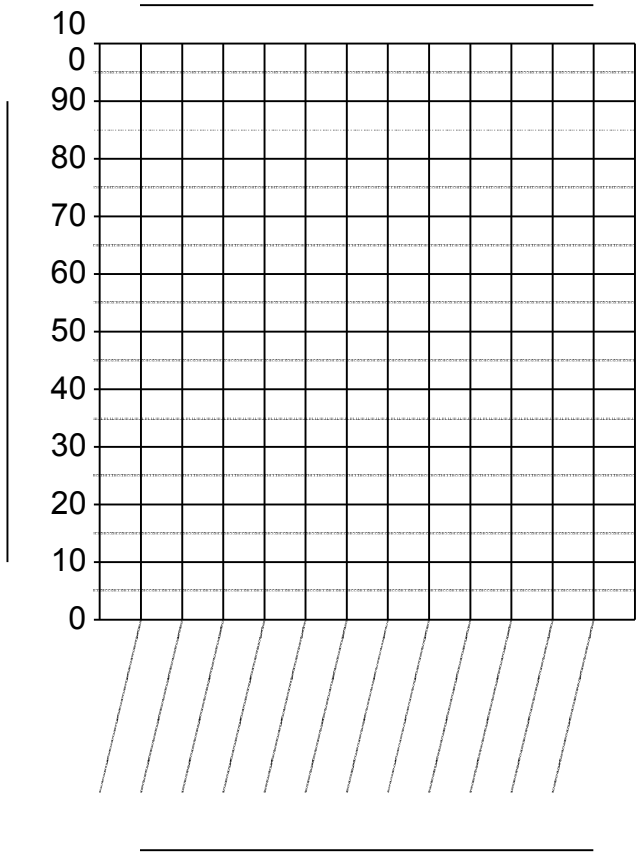


Graph Title

X-Axis Title	Y-Axis Title
January	13
February	28
March	41
April	45
May	82
June	100
July	100
August	98
September	88
October	64
November	36
December	10

Complete the graph.

474.



Graph Title

X-Axis Title	Y-Axis Title
January	24
February	25
March	34
April	44
May	46
June	46
July	46
August	42
September	40
October	34
November	17
December	10

Convert the given measures to new units.

475. 13 km = _____ mm

476. 40 km = _____ m

477. 30 mm = _____ km

478. 92 km = _____ m

479. 18 cm = _____ km

480. 57 mm = _____ m

481. 57 km = _____ mm

482. 41 cm = _____ m

483. 12 m = _____ km

484. 42 cm = _____ km

485. 82 km = _____ cm

486. 47 cm = _____ mm

487. 27 mm = _____ km

488. 82 m = _____ km

489. 82 mm = _____ km

490. 27 m = _____ cm

491. 10 m = _____ km

492. 78 mm = _____ km

493. 35 m = _____ km

494. 57 m = _____ km

Convert the given measures to new units.

495. 24 mg = _____ g
496. 16 mg = _____ g

497. 78 g = _____ mg
498. 52 g = _____ mg

499. 83 mg = _____ g
500. 96 mg = _____ g

501. 34 mg = _____ g
502. 69 g = _____ mg

503. 64 g = _____ mg
504. 42 g = _____ mg

Convert the given measures to new units.

505. 12 g = _____ kg
506. 45 kg = _____ g

507. 72 g = _____ kg
508. 56 kg = _____ g

509. 76 g = _____ kg
510. 58 kg = _____ g

511. 78 g = _____ kg
512. 95 g = _____ kg

513. 28 kg = _____ g
514. 60 kg = _____ g

Convert the given measures to new units.

515. 31 kg = _____ t
516. 50 t = _____ kg

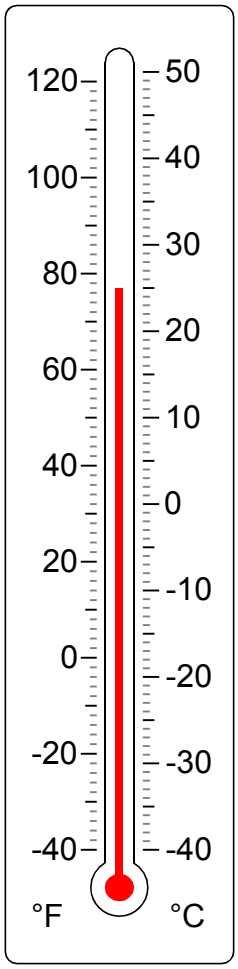
517. 48 t = _____ kg
518. 89 kg = _____ t

519. 61 kg = _____ t
520. 34 t = _____ kg

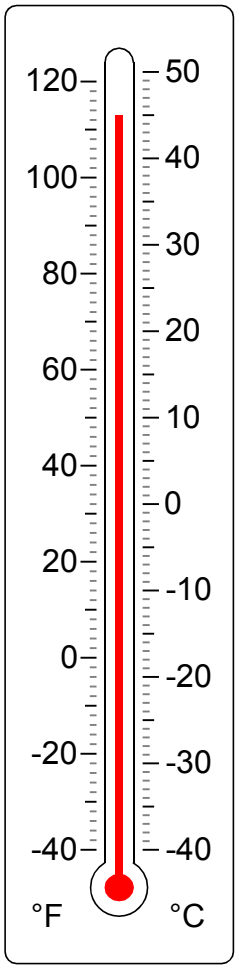
521. 81 kg = _____ t
522. 58 t = _____ kg

523. 31 t = _____ kg
524. 27 kg = _____ t

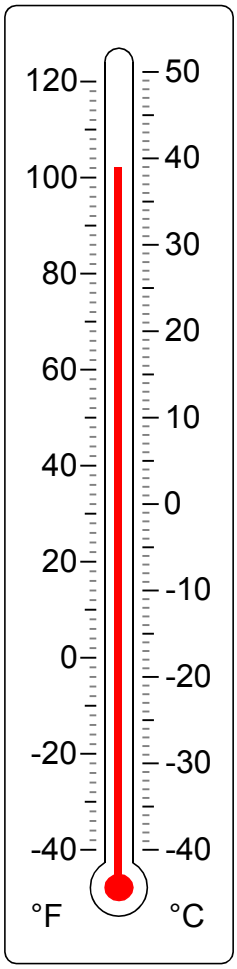
Identify the temperature for each thermometer.

525. 

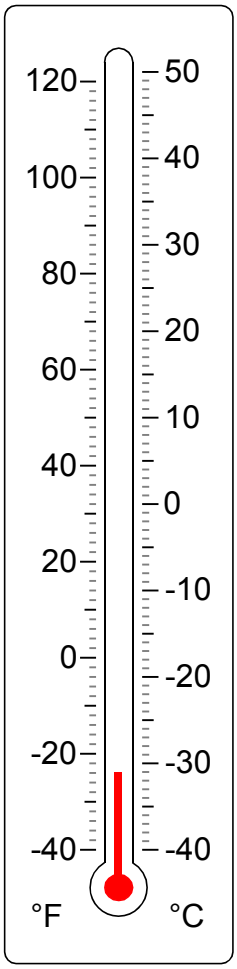
_____ °C

526. 

_____ °C

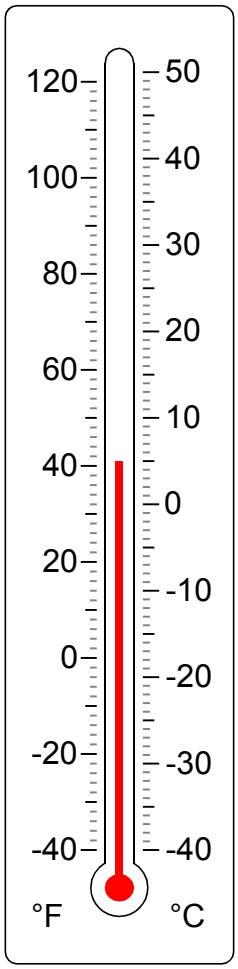
527. 

_____ °C

528. 

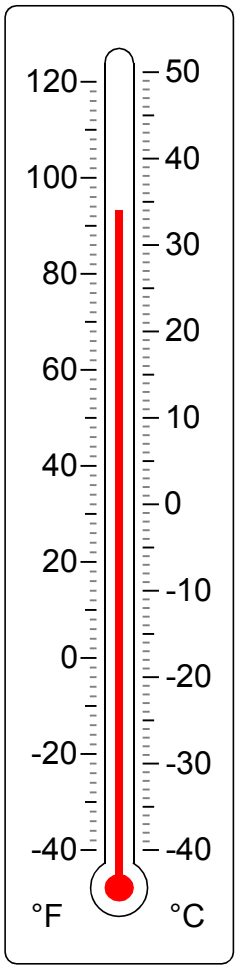
_____ °C

529.



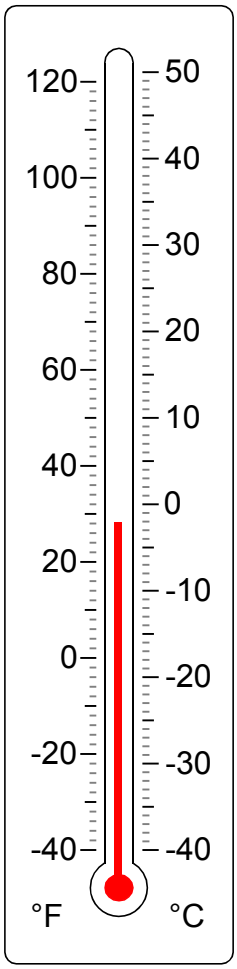
_____ °C

530.



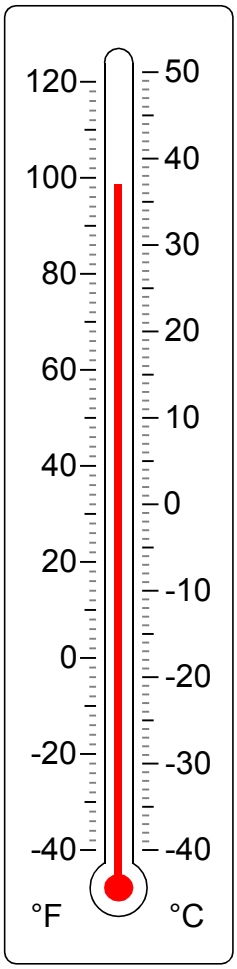
_____ °C

531.



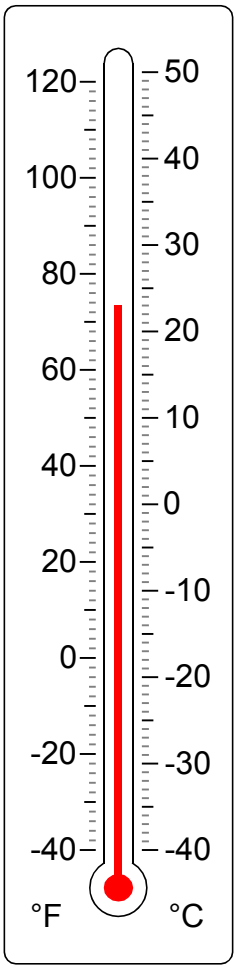
_____ °C

532.



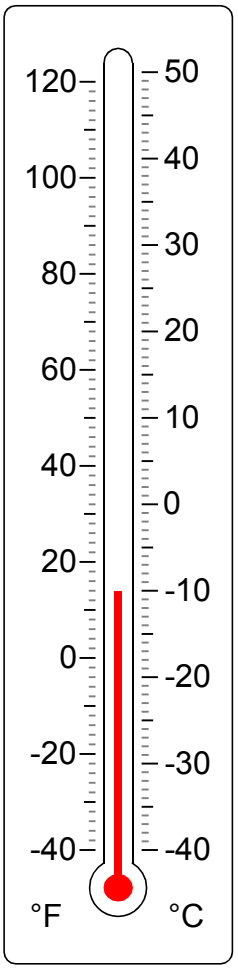
_____ °C

533.



_____ °C

534.



_____ °C

Convert the values.

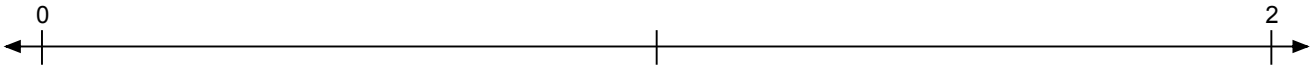
535. 21^3 = _____ 536. 9^3 = _____ 537. 2^4 = _____ 538. 22^3 = _____

539. 11^4 = _____ 540. 2^2 = _____ 541. 2^3 = _____ 542. 10^4 = _____

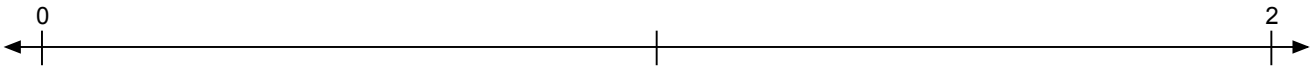
543. 23^3 = _____ 544. 21^4 = _____

Identify where each set of points should be placed on the number lines below.

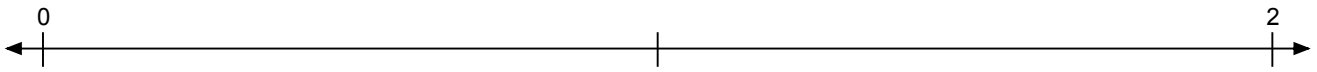
545. 0.7 0.9 1.7 0.5



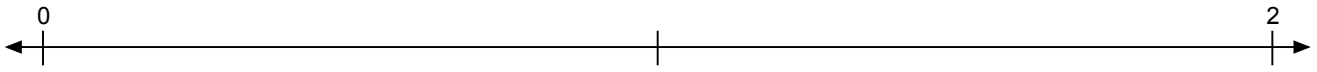
546. 0.9 0.5 1.1 1.6



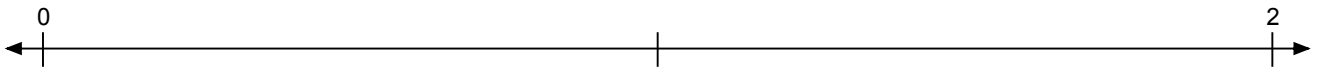
547. 1.9 1.4 1.2 1.6



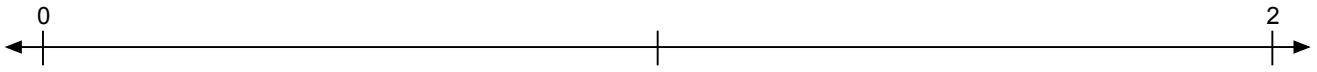
548. 0.2 1.6 0.9 1.2



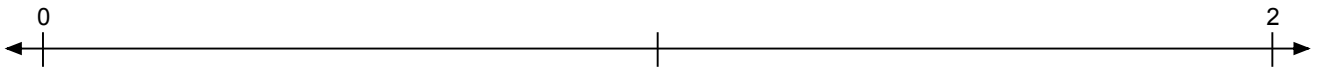
549. 0.6 0.9 1.1 0.2



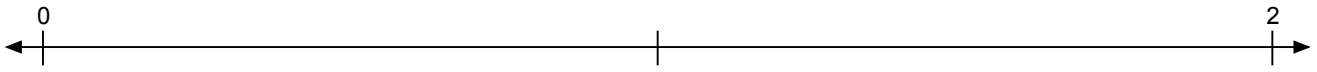
550. 0.8 1.5 1.1 0.3



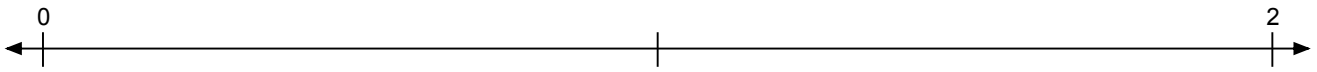
551. 1.4 0.9 1.7 0.5



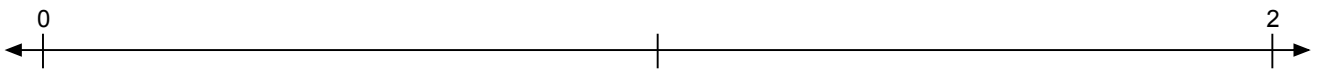
552. 1.8 0.6 0.8 0.1



553. 1.5 1.8 0.6 0.2

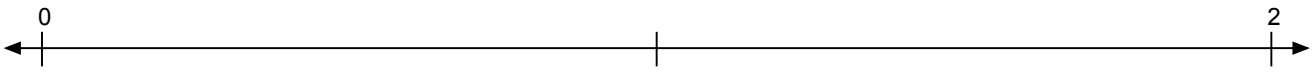


554. 1.6 1.4 1 0.1

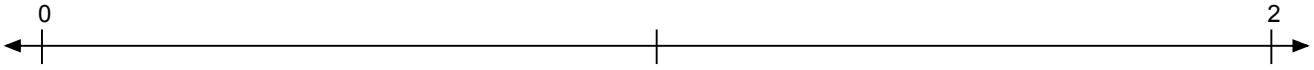


Identify where each set of points should be placed on the number lines below.

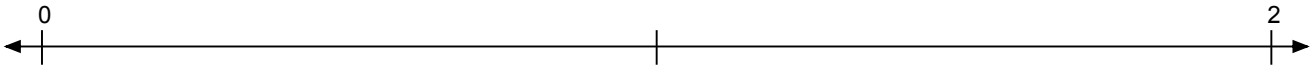
555. $\frac{7}{8}$ $1\frac{3}{8}$ $\frac{1}{8}$ $1\frac{7}{8}$



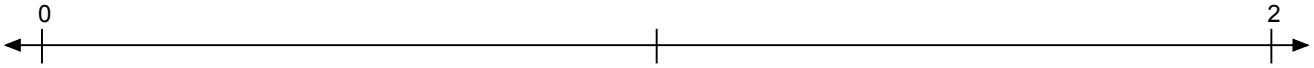
556. $\frac{9}{10}$ $1\frac{2}{5}$ $\frac{1}{5}$ $\frac{1}{2}$



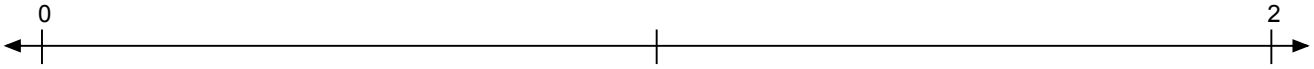
557. $\frac{1}{8}$ $\frac{7}{8}$ $1\frac{1}{4}$ $1\frac{7}{8}$



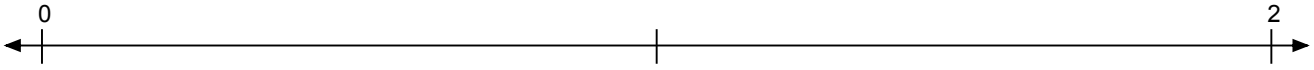
558. $1\frac{9}{10}$ $1\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{2}$



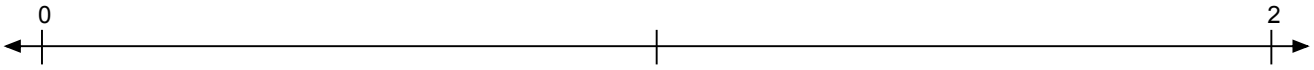
559. $1\frac{9}{10}$ $1\frac{2}{5}$ $\frac{9}{10}$ $\frac{2}{5}$



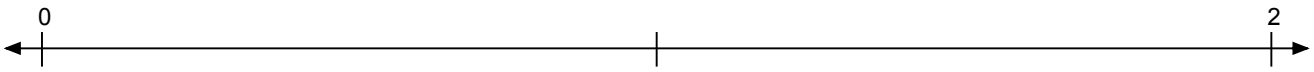
560. $\frac{7}{8}$ $\frac{1}{2}$ $1\frac{3}{8}$ $\frac{1}{8}$



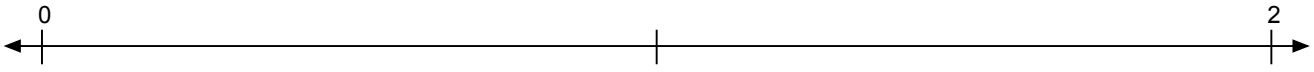
561. $\frac{2}{5}$ $1\frac{4}{5}$ $\frac{1}{10}$ 1



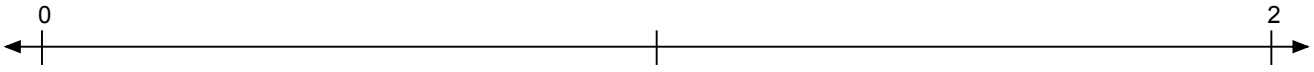
562. $1\frac{3}{8}$ $\frac{5}{8}$ 1 $\frac{1}{8}$



563. $\frac{4}{5}$ $\frac{1}{10}$ $1\frac{2}{5}$ $\frac{1}{2}$

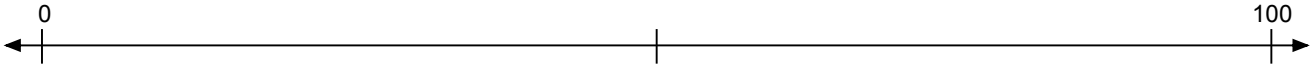


564. $\frac{1}{2}$ $\frac{1}{8}$ $1\frac{1}{8}$ $1\frac{1}{2}$

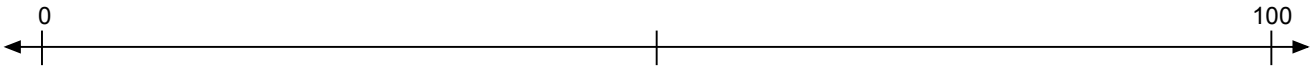


Identify where each set of points should be placed on the number lines below.

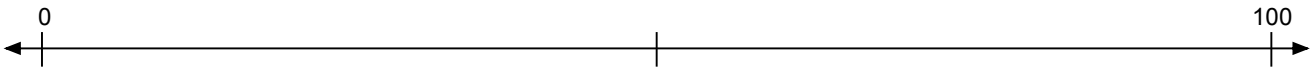
565. 30, 95, 50, 60



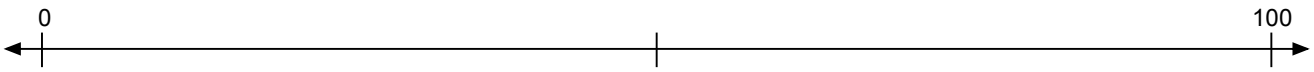
566. 55, 70, 20, 5



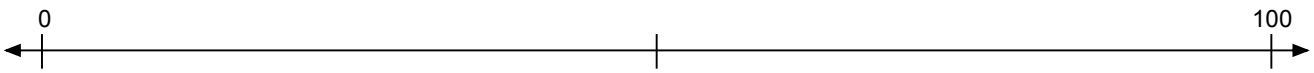
567. 50, 10, 55, 30



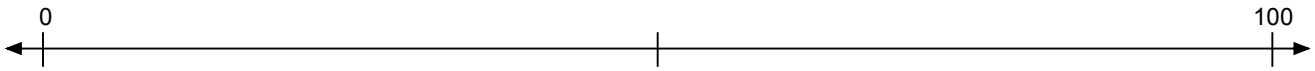
568. 20, 85, 65, 15



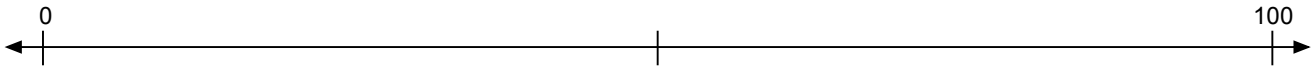
569. 65, 75, 50, 30



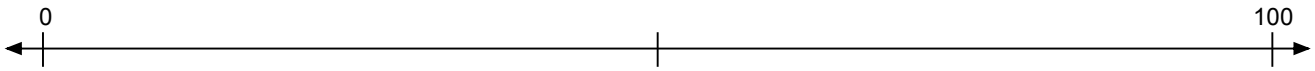
570. 5, 70, 55, 40



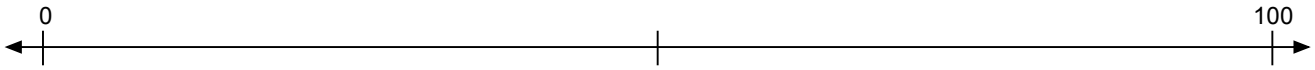
571. 30, 90, 95, 10



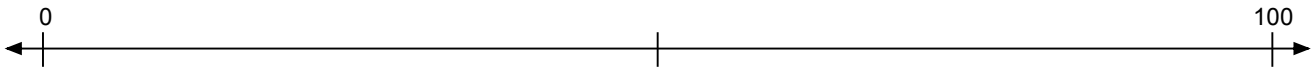
572. 50, 5, 10, 20



573. 30, 90, 80, 40



574. 75, 55, 20, 45



Complete the counting tables.

575. Count by 2 from 7 to 25

576. Count by 3 from 9 to 36

577. Count by 9 from 2 to 83

578. Count by 4 from 8 to 44

579. Count by 4 from 4 to 40

580. Count by 6 from 5 to 59

581. Count by 4 from 6 to 42

582. Count by 9 from 1 to 82

583. Count by 3 from 5 to 32

584. Count by 4 from 3 to 39

Write each value in words.

585. 2,028 _____

586. 7,465 _____

587. 6,872 _____

588. 9,788 _____

589. 2,372 _____

590. 4,382 _____

591. 8,376 _____

592. 2,400 _____

593. 5,359 _____

594. 4,007 _____

Provide the standard notation for each value.

595. _____ four thousand seven hundred fifty-nine

596. _____ one thousand seven hundred ninety-one

597. _____ five thousand three hundred eleven

598. _____ two hundred

599. _____ five thousand three hundred forty-one

600. _____ two thousand eight hundred ninety-three

601. _____ two hundred three

602. _____ six thousand two hundred sixty-eight

603. _____ nine thousand six hundred eighty-nine

604. _____ two thousand four hundred twenty-nine

Order the numbers.

605.
827 _____
975 _____
102 _____
514 _____
428 _____
216 _____

606.
424 _____
955 _____
888 _____
629 _____
787 _____
954 _____

607.
167 _____
963 _____
771 _____
770 _____
817 _____
432 _____

608.
786 _____
752 _____
999 _____
441 _____
619 _____
436 _____

609.
156 _____
441 _____
294 _____
715 _____
987 _____
459 _____

610.
536 _____
762 _____
445 _____
240 _____
126 _____
393 _____

611.
702 _____
891 _____
594 _____
117 _____
617 _____
224 _____

612.
203 _____
436 _____
196 _____
881 _____
759 _____
551 _____

613.
735 _____
556 _____
541 _____
204 _____
926 _____
182 _____

614.
556 _____
398 _____
420 _____
531 _____
209 _____
780 _____

Convert.

615. $63\frac{1}{4}\% =$ _____

616. $88\% =$ _____

617. $31\frac{2}{5}\% =$ _____

618. $11\frac{5}{10}\% =$ _____

619. $68\frac{3}{4}\% =$ _____

620. $18\frac{4}{5}\% =$ _____

621. $97\frac{7}{10}\% =$ _____

622. $79\frac{1}{2}\% =$ _____

623. $89\frac{1}{2}\% =$ _____

624. $38\frac{3}{5}\% =$ _____

Convert.

625. $0.248 =$ _____ 626. $0.69 =$ _____ 627. $0.335 =$ _____

628. $0.825 =$ _____ 629. $0.393 =$ _____ 630. $0.932 =$ _____

631. $0.33 =$ _____ 632. $0.786 =$ _____ 633. $0.08 =$ _____

634. $0.212 =$ _____

Convert.

635. $19\frac{1}{4}\% =$ _____ 636. $64\frac{3}{10}\% =$ _____ 637. $0.992 =$ _____

638. $15\% =$ _____ 639. $0.934 =$ _____ 640. $0.325 =$ _____

641. $32\frac{2}{5}\% =$ _____ 642. $7\frac{2}{4}\% =$ _____ 643. $81\frac{1}{10}\% =$ _____

644. $88\frac{4}{5}\% =$ _____

Calculate the given percent of each value.

645. 10% of 308 = _____ 646. 10% of 389 = _____ 647. 10% of 42 = _____

648. 10% of 2 = _____ 649. 10% of 133 = _____ 650. 10% of 769 = _____

651. 10% of 94 = _____ 652. 10% of 81 = _____ 653. 10% of 391 = _____

654. 10% of 33 = _____

Calculate the given percent of each value.

655. 90% of 711 = _____ 656. 73% of 2 = _____ 657. 50% of 2 = _____

658. 86% of 58 = _____ 659. 99% of 6 = _____ 660. 85% of 92 = _____

661. 14% of 2 = _____ 662. 57% of 3 = _____ 663. 92% of 59 = _____

664. 22% of 42 = _____

Provide the conversions for each ratio.

665.

	Ratio	Fraction	Percent	Decimal
a.	1:3			
b.	3:5			
c.	7:7			
d.	5:8			
e.	8:10			
f.	8:9			
g.	6:10			
h.	1:6			
i.	1:10			
j.	2:3			

666.

	Ratio	Fraction	Percent	Decimal
a.	3:7			
b.	2:4			
c.	1:7			
d.	8:8			
e.	1:3			
f.	1:4			
g.	1:6			
h.	3:6			
i.	3:5			
j.	4:5			

Complete the table.

667.

+	6	9	1	3	2
8					
5					
6					
4					
3					

668.

+	1	5	7	3	4
4					
6					
3					
2					
8					

Complete the table.

669.

÷	80	59	92	85	54
7					
5					
6					
4					
2					

670.

÷	59	35	28	45	77
8					
7					
4					
3					
2					

Complete the table.

671.

✖	2	4	11	8	5
3					
7					
2					
10					
4					

672.

✖	6	2	3	11	4
4					
9					
2					
12					
5					

Complete the table.

673.

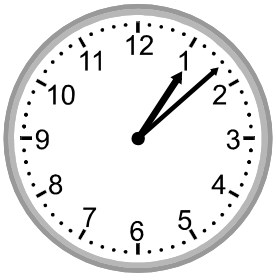
−	16	13	15	17	10
2					
6					
9					
7					
8					

674.

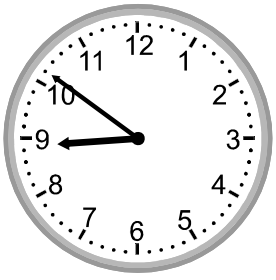
−	16	14	17	15	18
8					
2					
9					
4					
3					

Show the time for each clock.

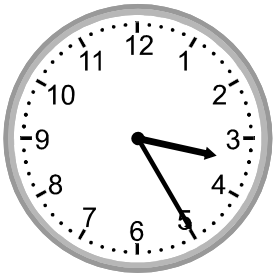
675.

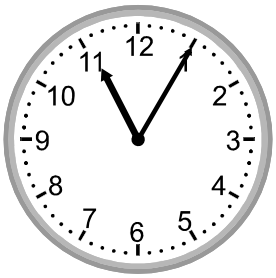


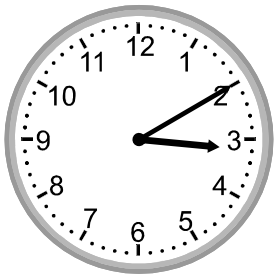
676.

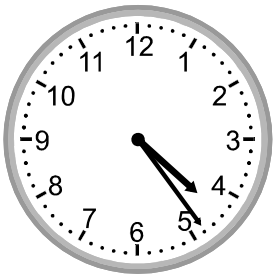


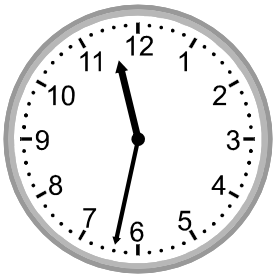
677.

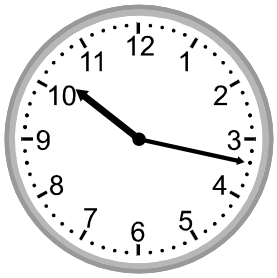


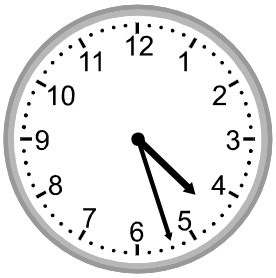
678. 

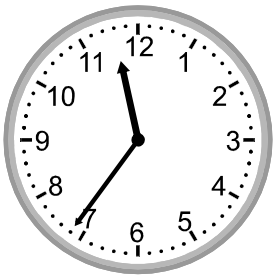
679. 

680. 

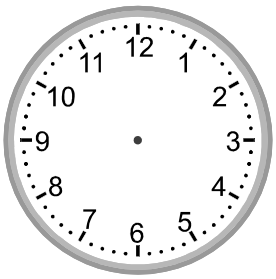
681. 

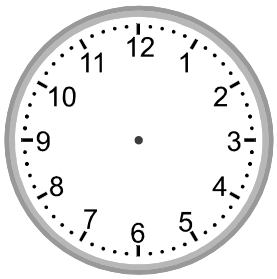
682. 

683. 

684. 

Show the time for each clock.

685. 
9:28

686. 
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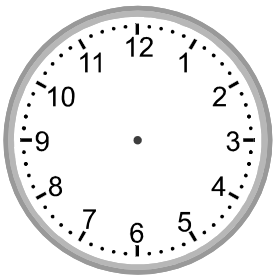
687. 
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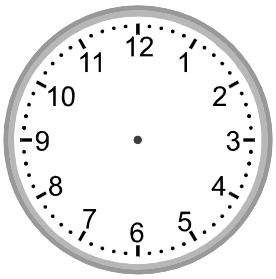
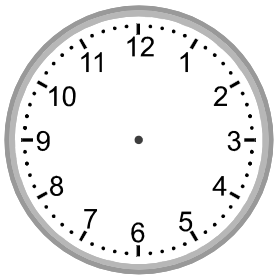
688. 
2:55

689. 
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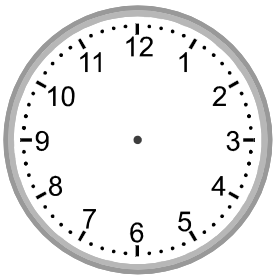
690. 
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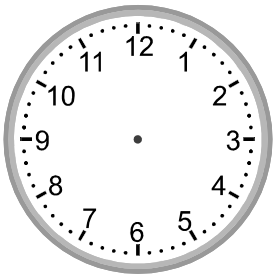
691. 

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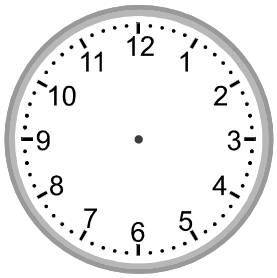
692. 

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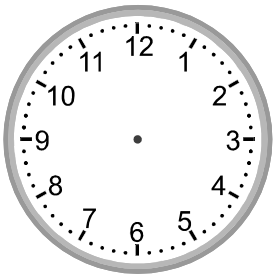
693. 

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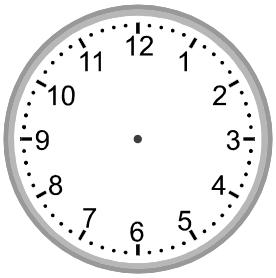
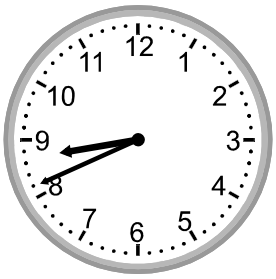
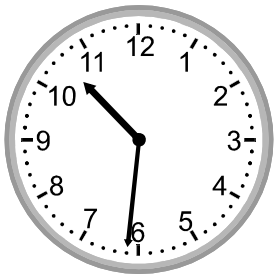
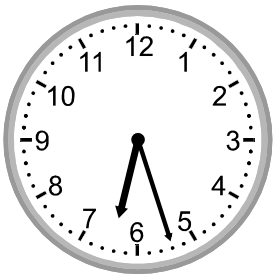
694. 

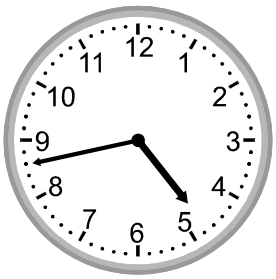
6:37

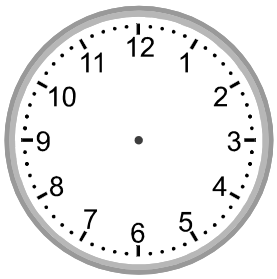
Show the time for each clock.

695. 

696. 

697. 

698. 

699. 

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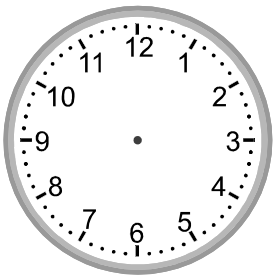
700. 

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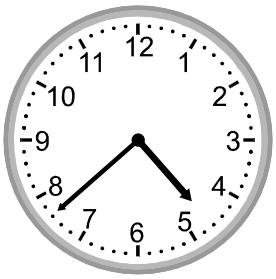
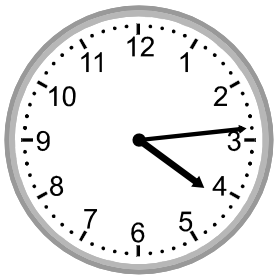
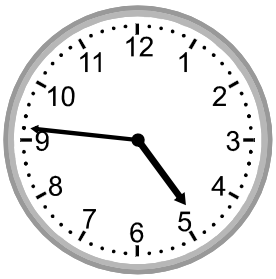
701. 

702. 

703. 

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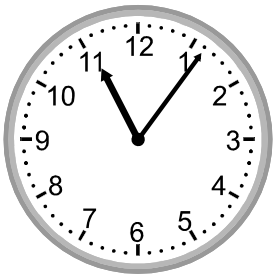
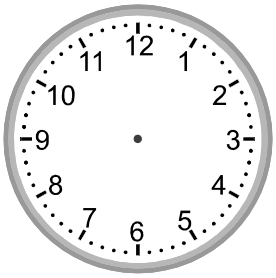


Show the time for each clock.

705.



03:04

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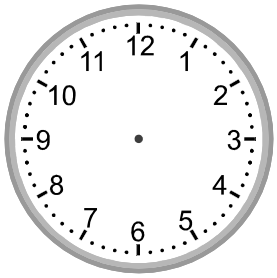

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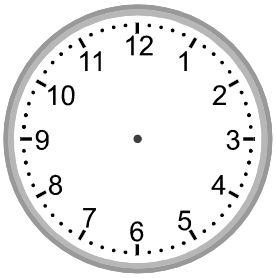

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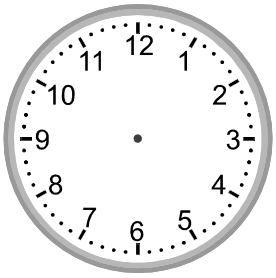

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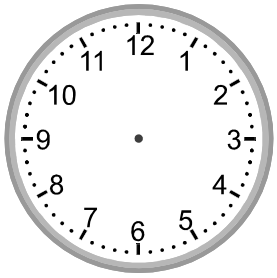

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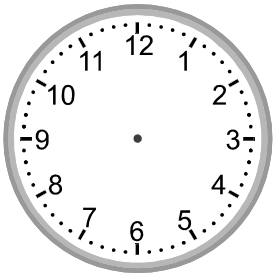

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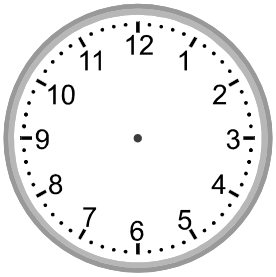

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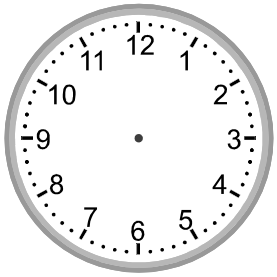

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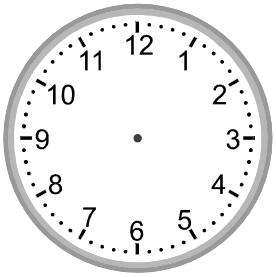

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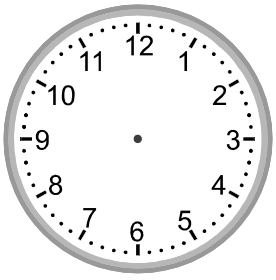
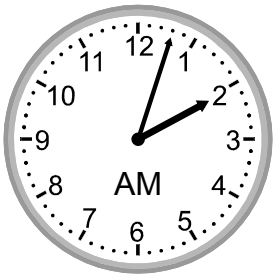
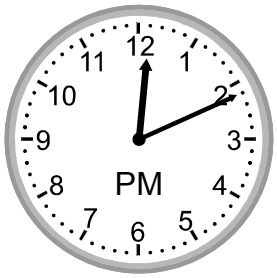
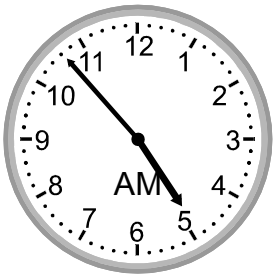


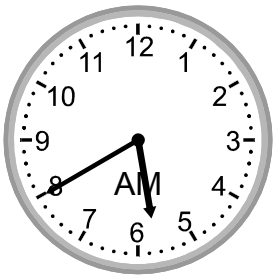
01:38

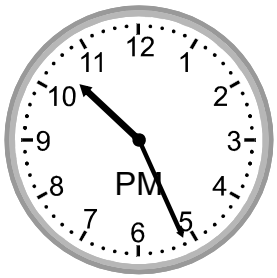
Show the time for each clock.

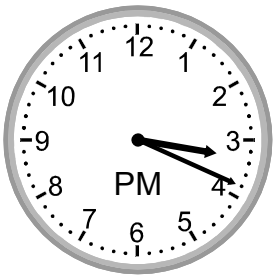
715. 

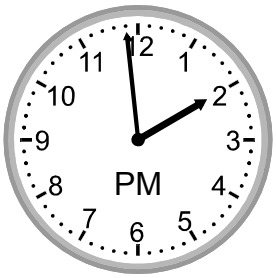
716. 

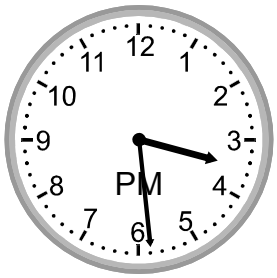
717. 

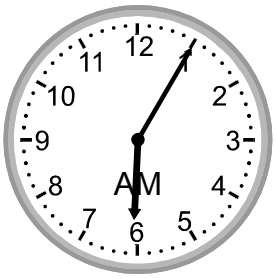
718. 

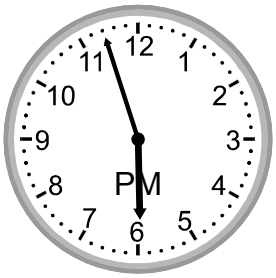
719. 

720. 

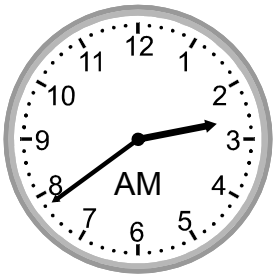
721. 

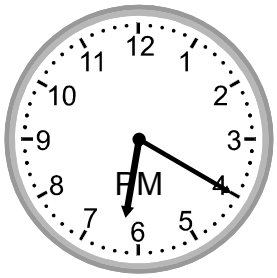
722. 

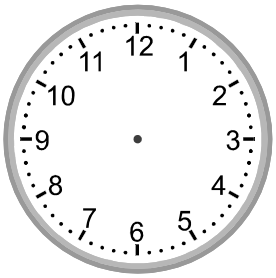
723. 

724. 

Show the time for each clock.

725. 

726. 

727. 

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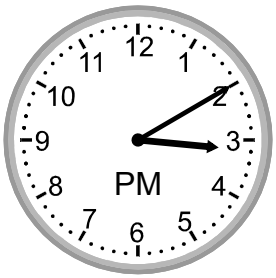
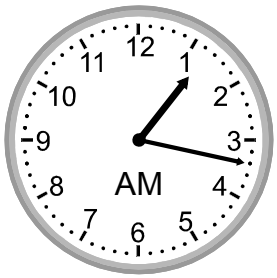
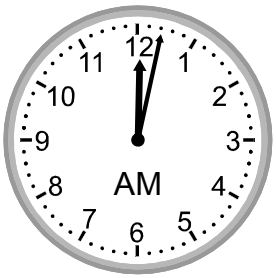
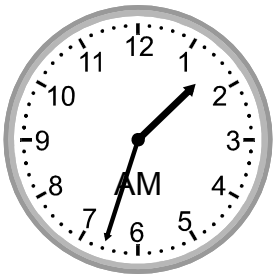
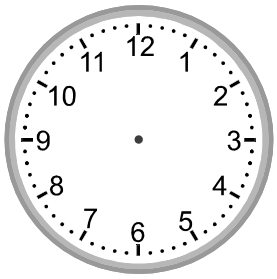
728. 

729. 

730. 

731. 

732. 

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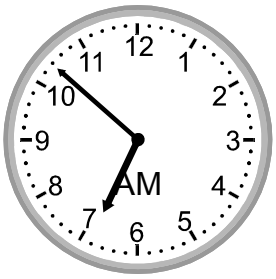
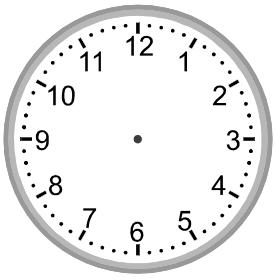
733. 

734. 

04:08

Convert the given measures of time to alternate measures of time.

735. 93 min = _____ 736. 84 hr = _____ 737. 36 hr = _____

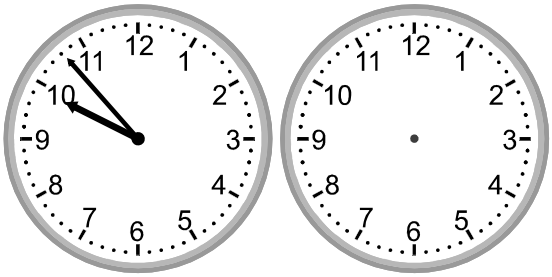
738. 83 min = _____ 739. 22 min = _____ 740. 93 hr = _____

741. 62 min = _____ 742. 77 hr = _____ 743. 62 hr = _____

744. 29 hr = _____

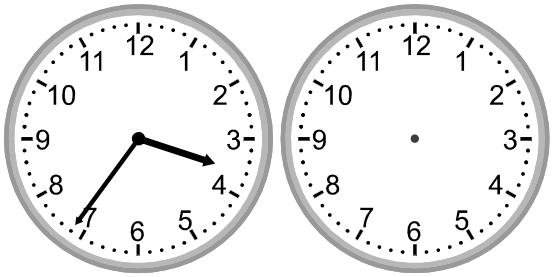
Draw the clock hands to show the passage of time.

745.



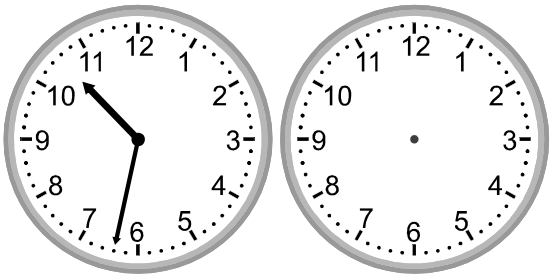
What time will it be in 4 hours 11 minutes?

746.



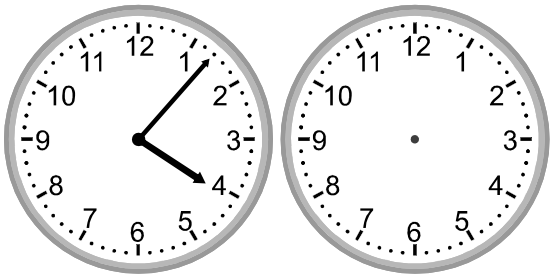
What time will it be in 2 hours 17 minutes?

747.



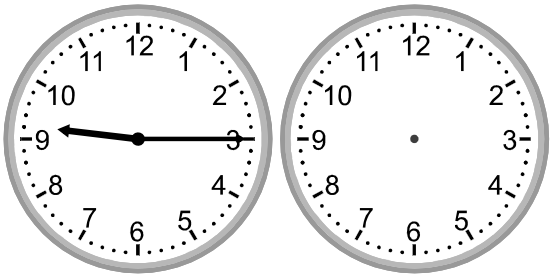
What time will it be in 3 hours 19 minutes?

748.



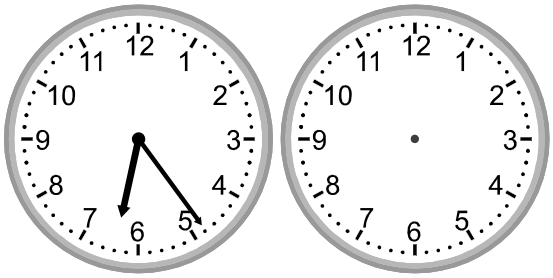
What time will it be in 4 hours 26 minutes?

749.



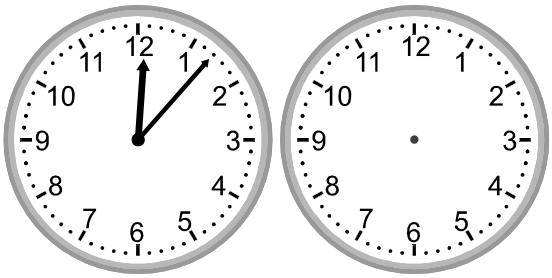
What time will it be in 1 hour 42 minutes?

750.



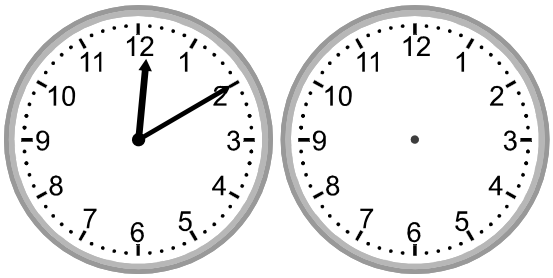
What time will it be in 1 hour 1 minute?

751.

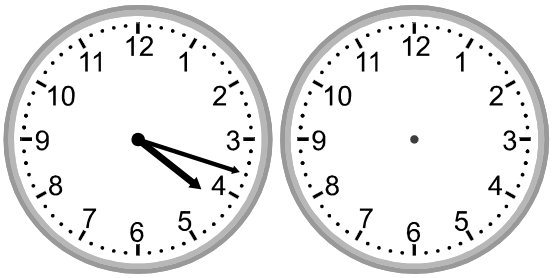


What time will it be in 1 hour 31 minutes?

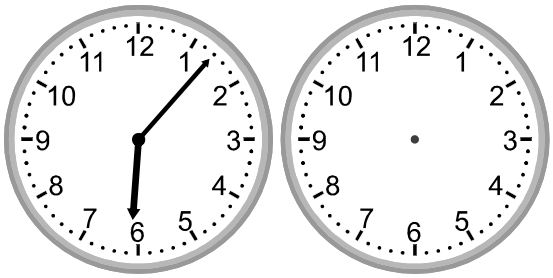
752.



What time will it be in 3 hours 9 minutes?

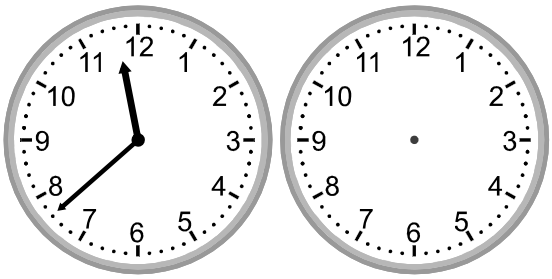
753. 

What time will it be in 3 hours 43 minutes?

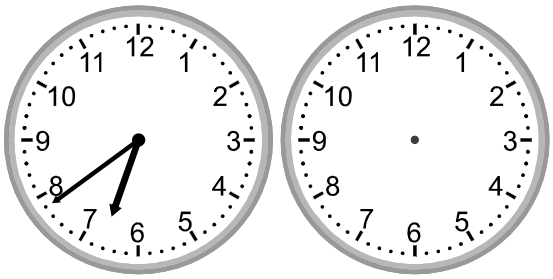
754. 

What time will it be in 5 hours 51 minutes?

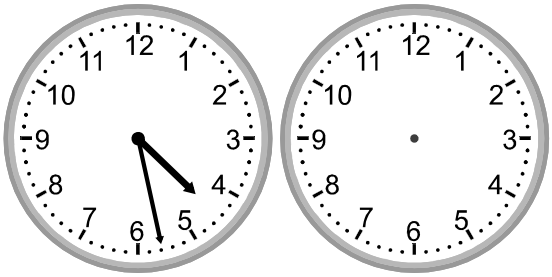
Draw the clock hands to show the passage of time.

755. 

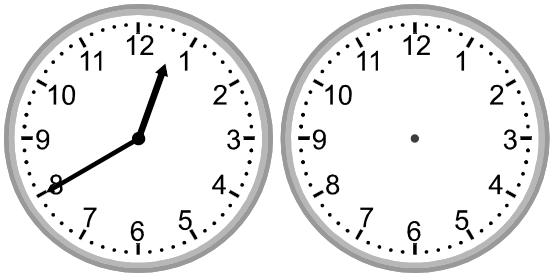
What time was it 5 hours 10 minutes ago?

756. 

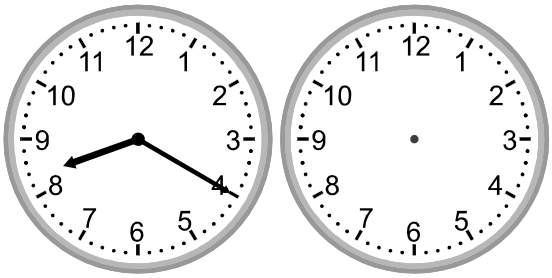
What time was it 2 hours 26 minutes ago?

757. 

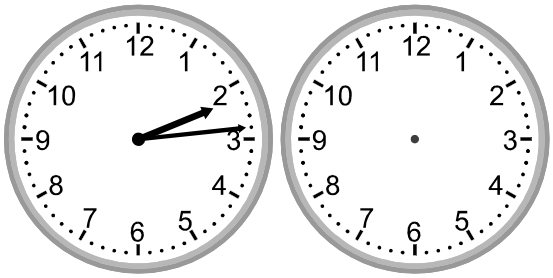
What time was it 5 hours 3 minutes ago?

758. 

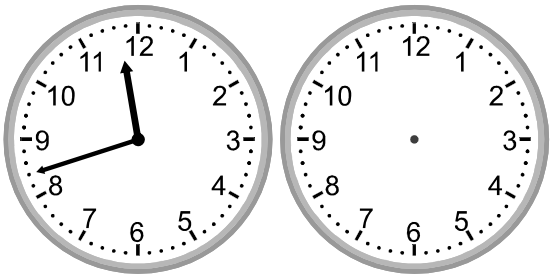
What time was it 5 hours 46 minutes ago?

759. 

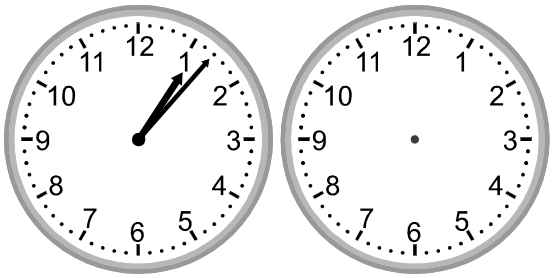
What time was it 1 hour 35 minutes ago?

760. 

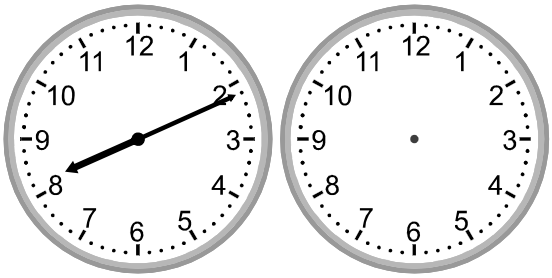
What time was it 3 hours 26 minutes ago?

761. 

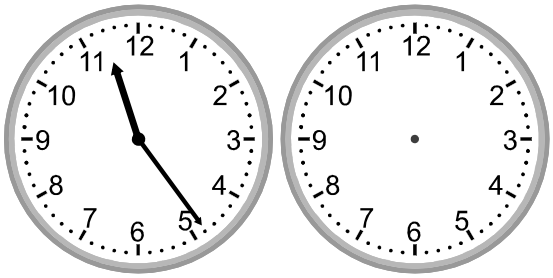
What time was it 4 hours 15 minutes ago?

762. 

What time was it 4 hours 40 minutes ago?

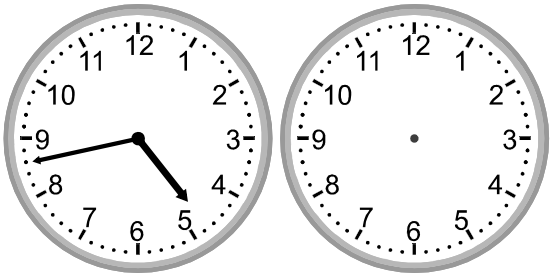
763. 

What time was it 2 hours 19 minutes ago?

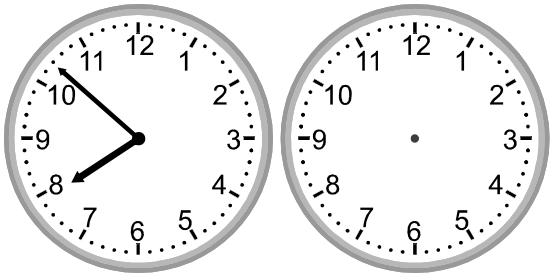
764. 

What time was it 5 hours 19 minutes ago?

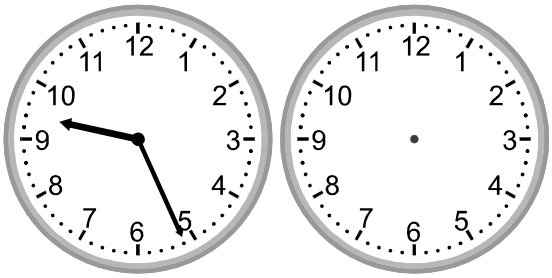
Draw the clock hands to show the passage of time.

765. 

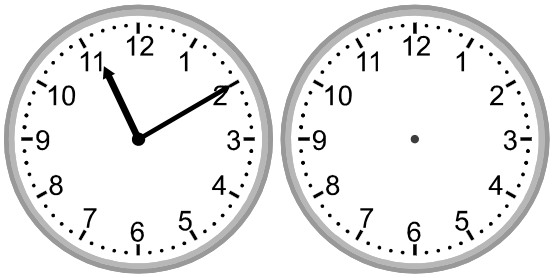
What time was it 1 hour 49 minutes ago?

766. 

What time will it be in 4 hours 19 minutes?

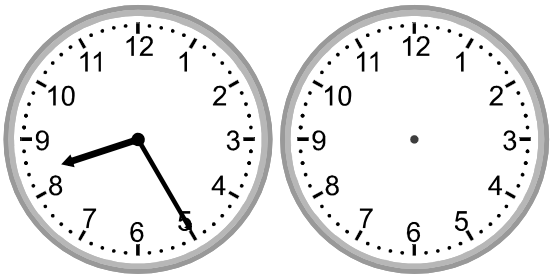
767. 

What time was it 2 hours 48 minutes ago?

768. 

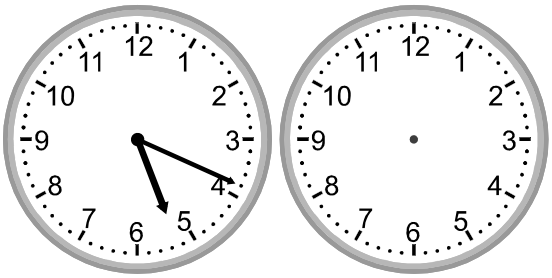
What time was it 2 hours 40 minutes ago?

769.



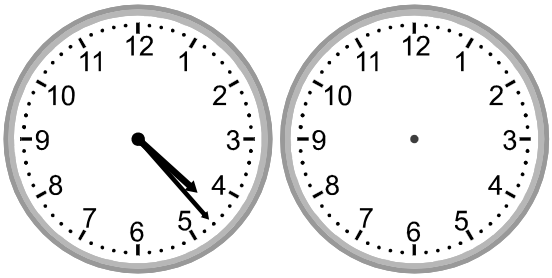
What time was it 2 hours 26 minutes ago?

770.



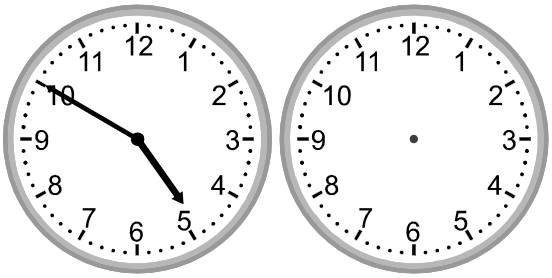
What time will it be in 1 hour 50 minutes?

771.



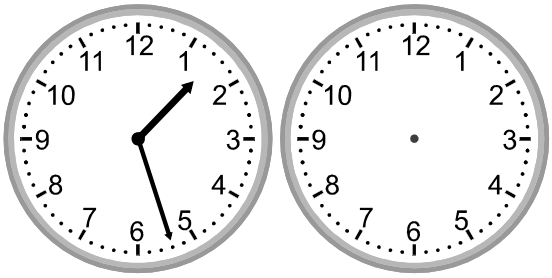
What time will it be in 4 hours 13 minutes?

772.



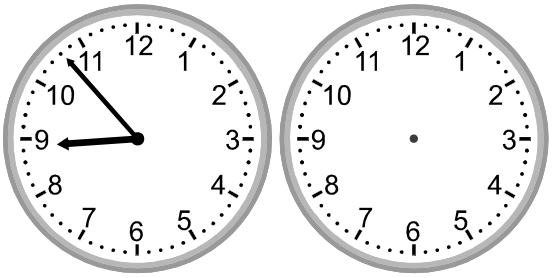
What time was it 4 hours 10 minutes ago?

773.



What time was it 2 hours 53 minutes ago?

774.



What time will it be in 4 hours 21 minutes?

775. In the space below sketch a map from school to your home. It does not need to be to scale.

776. In the space below sketch a plan of the school. It does not need to be to scale.

Chance

777. What is the probability (chance) of tossing a coin and it showing heads?

_____

778. What is the probability (chance) of rolling a die and it showing a 5?

_____

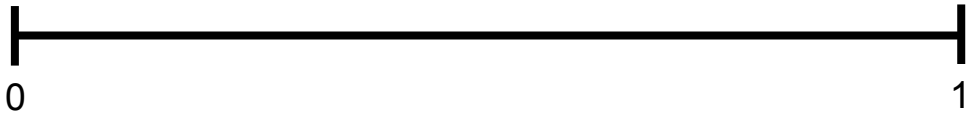
779. A hat contains 5 red and 4 green discs. What is the probability (chance) of drawing a green disc?

_____

780. A standard deck of cards contains 52 cards. What is the probability of randomly drawing an Ace Of Spades from the deck?

_____

781. On the number line below, show the location of probabilities which can be described as; certain, unlikely, likely, impossible and even.



Rates Of Application

782. The walls of a room are to be painted with two coats of paint. The area of the walls is 25m^2. Correct application of the paint requires 100mL of paint per square metre. Calculate how many litres of paint will be required.

_____

_____

_____

_____

783. A front lawn has an area of 225m^2. A pesticide to remove weeds is sprayed onto the lawn at a rate of 50mL per square metre. How much pesticide is required to complete the task?

_____

_____

_____

_____

784. It's spring time and the lawn is to be fertilised with a powdered food for grass. The fertiliser is to be spread at a rate of 50g per square metre. The bags of fertiliser are 10kg. How many square metres of lawn will be fertilised with 2 bags of lawn food?

_____

_____

_____

_____

785. Draw the named shapes in the boxes below.

Equilateral Triangle	Isosceles Triangle	Right Triangle	Scalene Triangle

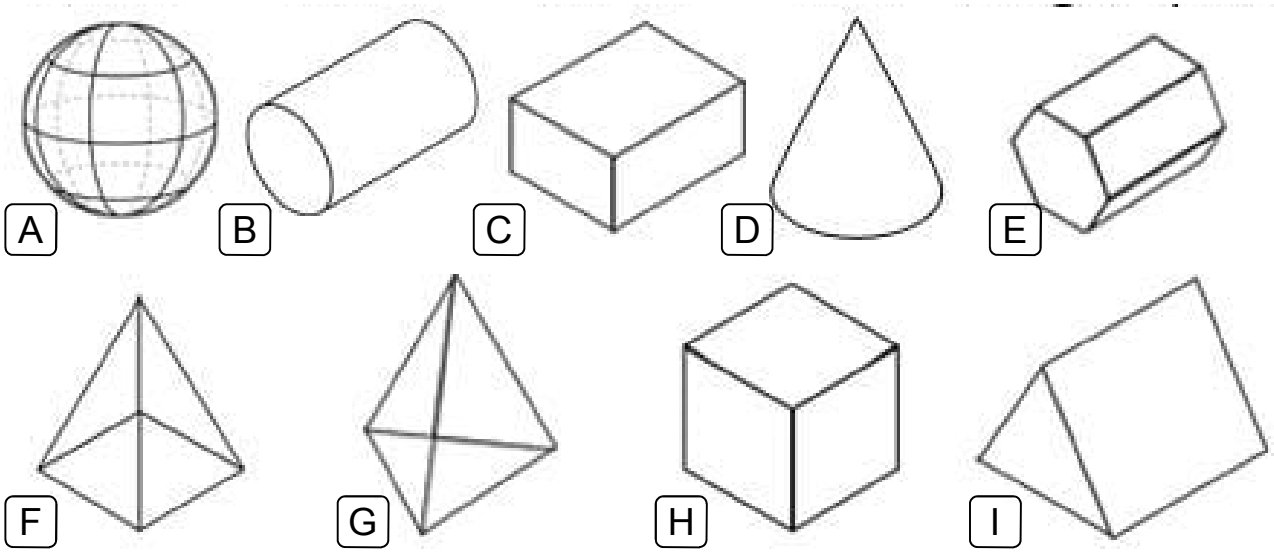
786. Draw the named shapes in the boxes below.

Square	Rectangle	Circle	Semi-Circle

787. Draw the named shapes in the boxes below.

Pentagon	Hexagon	Octagon	Trapezium

788. Name the solids shown below.



A) _____ B) _____

C) _____ D) _____

E) _____ F) _____

G) _____ H) _____

I) _____

789. Below is a table with the ingredients for a recipe which is able to feed 4 people. The other columns are blank. Fill in the table to allow the recipe to feed the number given.

Ingredients	4 people	2 people	3 people	5 people	6 people
Spiral Pasta	500g				
Minced Meat (beef or chicken)	400g				
Pasta Sauce	350mL				
Parmesan Cheese	150g				
Olive Oil	2 tbsp*				

* tbsp = table spoon.

790. Below is a sign showing the costs of parking in the Toowong Village & Tower parking station. Read the sign carefully and answer the questions shown to the right of the sign.

a) What is the cost of parking for 3 hours?

_____

b) How much does a staff member pay for 7 hours of parking?

_____

c) A person parks from 8pm until 7am and pays by credit card. What is the total cost?

_____

_____

_____

791. Below is a map of Southern Florida. Use the map to answer the questions.

a) What is the name of the northernmost city?

_____

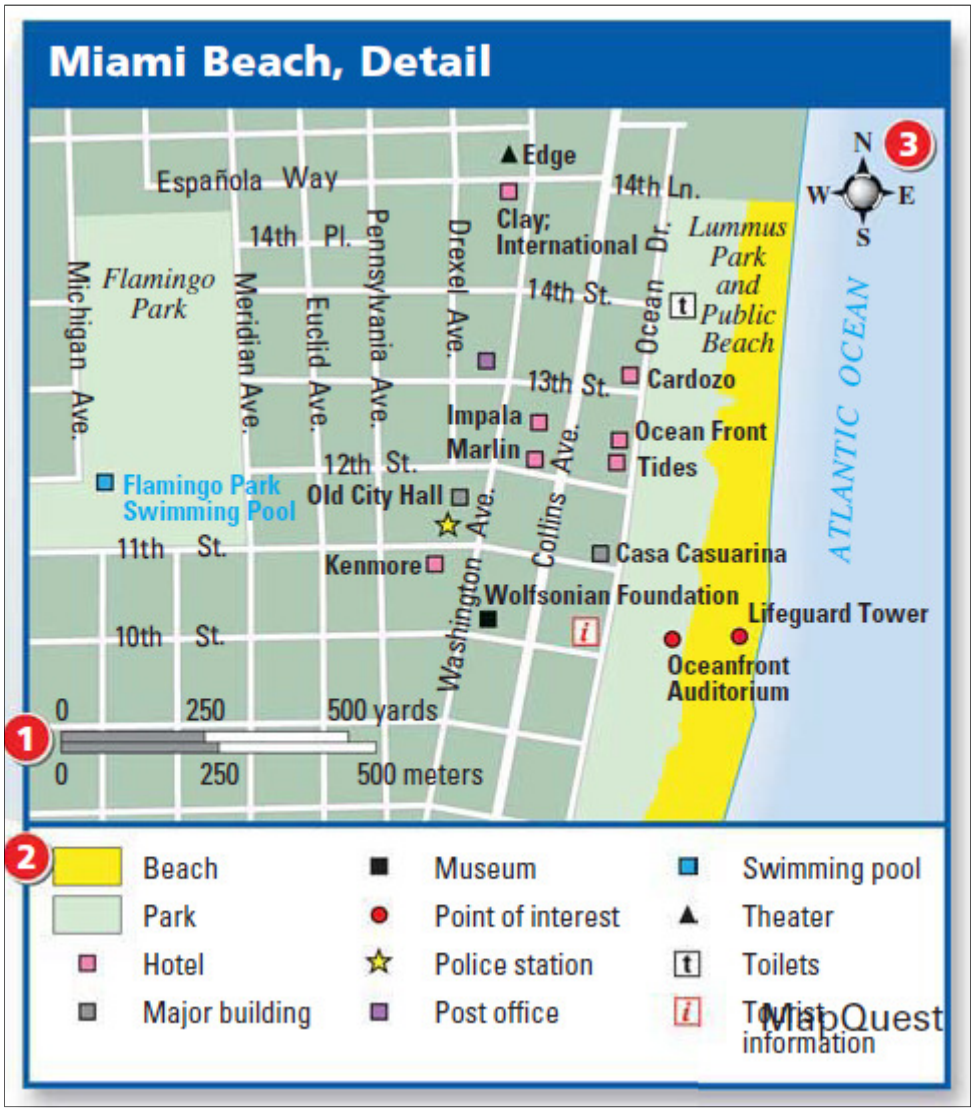
b) What is the name of the westernmost city?

_____

c) Use the scale on the map to estimate the distance between Key West and Naples in miles and kilometres.

_____

792. Below is a detailed map of Miami Beach. Use the map to answer the questions.



a) In what direction does 11th street run?

_____

b) What is the direction of the police station from the Lifeguard tower?

_____

c) Which is closer to the toilets, the police station or The Edge theater?

_____

d) Using the scale, how far is the Kenmore Hotel from the Cardozo Hotel?

_____

Answers

Find the sum.

1. 29 + 45 = 74	2. 50 + 85 = 135	3. 96 + 26 = 122	4. 35 + 63 = 98	5. 22 + 28 = 50	6. 58 + 52 = 110	7. 49 + 79 = 128	8. 52 + 89 = 141

9. 60 + 11 = 71

10. 57 + 13 = 70

Find the sum.

11. 670 + 208 = 878	12. 401 + 263 = 664	13. 551 + 238 = 789	14. 845 + 112 = 957	15. 703 + 126 = 829	16. 650 + 117 = 767	17. 802 + 182 = 984

18. 221 + 213 = 434

19. 625 + 104 = 729

20. 107 + 222 = 329

Find the quotient.

21. 1	22. 3	23. 6	24. 4	25. 8	26. 2	27. 3	28. 4
$2\overline{)2}$	$4\overline{)12}$	$4\overline{)24}$	$8\overline{)32}$	$1\overline{)8}$	$5\overline{)10}$	$1\overline{)3}$	$3\overline{)12}$

29. 7 $3\overline{)21}$

30. 1 $8\overline{)8}$

Find the product.

31. 15 × 5 = 75	32. 13 × 4 = 52	33. 13 × 3 = 39	34. 9 × 8 = 72	35. 5 × 6 = 30	36. 17 × 3 = 51	37. 9 × 1 = 9	38. 11 × 4 = 44

39. 8 × 6 = 48

40. 13 × 2 = 26

Find the product.

41. 92 × 42 = 3,864	42. 26 × 43 = 1,118	43. 78 × 12 = 936	44. 21 × 14 = 294	45. 21 × 55 = 1,155	46. 24 × 42 = 1,008	47. 95 × 19 = 1,805	48. 54 × 73 = 3,942

49. 60 × 14 = 840

50. 61 × 29 = 1,769

Find the difference.

51. 44 - 40 = 4

52. 39 - 24 = 15

53. 29 - 14 = 15

54. 40 - 34 = 6

55. 57 - 35 = 22

56. 25 - 16 = 9

57. 19 - 15 = 4

58. 14 - 13 = 1

59. 93 - 40 = 53

60. 95 - 44 = 51

Find the difference.

61. 400 - 338 = 62

62. 720 - 364 = 356

63. 600 - 479 = 121

64. 780 - 396 = 384

65. 560 - 285 = 275

66. 580 - 498 = 82

67. 700 - 354 = 346

68. 640 - 167 = 473

69. 830 - 269 = 561

70. 240 - 185 = 55

Find the sum.

71. 59 + 28 + 17 + 26 + 29 = 159

72. 31 + 56 + 52 + 81 + 34 = 254

73. 61 + 38 + 80 + 29 + 94 = 302

74. 90 + 81 + 92 + 51 + 12 = 326

75. 37 + 95 + 85 + 94 + 64 = 375

76. 48 + 78 + 65 + 68 + 97 = 356

77. 37 + 94 + 58 + 43 + 99 = 331

78. 18 + 46 + 77 + 29 + 99 = 269

79. 21 + 93 + 58 + 44 + 18 = 234

80. 93 + 77 + 52 + 50 + 57 = 329

Solve.

81. Two apples are in the basket. Four more apples are put in the basket. How many apples are in the basket now?

6

82. Two red plums and two green plums are in the basket. How many plums are in the basket?

4

83. Eight peaches were in the basket. More peaches were added to the basket. Now there are 16 peaches. How many peaches were added to the basket?

8

84. Some oranges were in the basket. Nine more oranges were added to the basket. Now there are 12 oranges. How many oranges were in the basket before more oranges were added?

3

85. Paul has seven pears and David has six pears. How many pears do Paul and David have together?

13

86. Marin has eight more marbles than Marin. Marin has nine marbles. How many marbles does Marin have?

17

87. Eight balls were in the basket. Five are red and the rest are green. How many balls are green?

3

88. Paul has eight pears and Allan has two pears. How many pears do Paul and Allan have together?

10

89. 11 apples were in the basket. Three are red and the rest are green. How many apples are green?

8

90. Six red oranges and five green oranges are in the basket. How many oranges are in the basket?

11

Solve.

91. You have 54 balls and want to share them equally with six people. How many balls would each person get?

9

92. Jake is reading a book with 40 pages. If Jake wants to read the same number of pages every day, how many pages would Jake have to read each day to finish in five days?

8

93. How many three cm pieces of rope can you cut from a rope that is 18 cm long?

6

94. A box of oranges weighs 35 pounds. If one orange weighs five pounds, how many oranges are there in the box?

7

95. Jennifer made 72 cookies for a bake sale. She put the cookies in bags, with eight cookies in each bag. How many bags did she have for the bake sale?

9

96. Audrey ordered seven pizzas. The bill for the pizzas came to $21. What was the cost of each pizza?

3

97. Donald is reading a book with 21 pages. If Donald wants to read the same number of pages every day, how many pages would Donald have to read each day to finish in seven days?

3

98. A box of oranges weighs 12 pounds. If one orange weighs six pounds, how many oranges are there in the box?

2

99. Paul ordered nine pizzas. The bill for the pizzas came to $36. What was the cost of each pizza?

4

100. Amy made 32 cookies for a bake sale. She put the cookies in bags, with four cookies in each bag. How many bags did she have for the bake sale?

8

Solve.

101. Janet's garden has six rows of pumpkins. Each row has three pumpkins. How many pumpkins does Janet have in all?

18

102. Allan can cycle two miles per hour. How far can Allan cycle in three hours?

6

103. Jake swims two laps every day. How many laps will Jake swim in five days?

10

104. If there are nine marbles in each box and there are eight boxes, how many marbles are there in total?

72

105. Steven has nine times more balls than Billy. Billy has two balls. How many balls does Steven have?

18

106. Marcie's garden has three rows of pumpkins. Each row has six pumpkins. How many pumpkins does Marcie have in all?

18

107. Steven can cycle nine miles per hour. How far can Steven cycle in three hours?

27

108. Michele has three times more apples than Donald. Donald has seven apples. How many apples does Michele have?

21

109. If there are five peaches in each box and there are seven boxes, how many peaches are there in total?

35

110. Jackie swims six laps every day. How many laps will Jackie swim in two days?

12

Solve.

111. Marcie has zero fewer oranges than Janet. Janet has eight oranges. How many oranges does Marcie have?

8

112. Some apples were in the basket. Two apples were taken from the basket. Now there are zero apples. How many apples were in the basket before some of the apples were taken?

2

113. Seven pears are in the basket. Four are red and the rest are green. How many pears are green?

3

114. Eight plums were in the basket. Some of the plums were removed from the basket. Now there are five plums. How many plums were removed from the basket?

3

115. Three balls are in the basket. Two balls are taken out of the basket. How many balls are in the basket now?

1

116. Donald has seven peaches. Brian has eight peaches. How many more peaches does Brian have than Donald?

1

117. Six marbles are in the basket. Two marbles are taken out of the basket. How many marbles are in the basket now?

4

118. Some pears were in the basket. Four pears were taken from the basket. Now there are two pears. How many pears were in the basket before some of the pears were taken?

6

119. Two apples are in the basket. Two are red and the rest are green. How many apples are green?

0

120. Sharon has one fewer ball than Marcie. Marcie has six balls. How many balls does Sharon have?

5

Find the solution.

121. $6 \times 3 + 1 =$ 19

122. $5(5 + 8) =$ 65

123. $(9 + 9)^2 =$ 324

124. $4 + 4 + 3 + 1 =$ 12

125. $(8 + 3) \times (1 + 4) =$ 55

126. $7 + 7 - 1 + 6 =$ 19

127. $6 + 1^2 + 8 + 1^2 =$ 16

128. $(5 + 8)^2 + (2 + 7)^2 =$ 250

129. $5 + 5 + 8 + 6 =$ 24

130. $(6 + 6)^2 + (2 + 2)^2 =$ 160

131. $7 \times (8 + 2) =$ 70

132. $(3 + 5) \times (5 + 2) =$ 56

133. $(7 + 6)^2 + (1 + 6)^2 =$ 218

134. $(4 + 3)(5 + 6) =$ 77

135. $(7 + 2) \times (3 + 2) =$ 45

136. $(5 + 5)(9 + 1) =$ 100

137. $7 + 6^2 =$ 43

138. $3 \times 5 + 8 =$ 23

139. $(5 + 7)^2 + (4 + 2)^2 =$ 180

140. $(1 + 9) \div 7 =$ 1.429

141. $9 \times 6 + 7 =$ 61

142. $1 \times 1 + 8 =$ 9

143. $(2 + 4) \div 4 =$ 1.5

144. $(2 + 8) \div 4 =$ 2.5

145. $9(9 + 2) =$ 99

146. $(4 + 4)^2 + (5 + 7)^2 =$ 208

147. $(7^2) \times (8^2) + 7 =$ 3,143

148. $5 + 6^2 =$ 41

149. $(3 + 1) \times (4 + 2) =$ 24

150. $(9^2) \times (6^2) + 4 =$ 2,920

151. $3 + 4^2 + 8 + 6^2 =$ 63

152. $2 + 4 + 3 + 1 =$ 10

153. $6 \times 3 \times 5 =$ 90

154. $6 \times 5 \times 8 =$ 240

155. $(8 + 5)(9 + 4) =$ 169

156. $(3 + 1)^2 + (7 + 4)^2 =$ 137

157. $3 + 9^2 + 3 + 2^2 =$ 91

158. $(1 + 7)^2 + (1 + 5)^2 =$ 100

159. $9 + 5 + 8 + 8 =$ 30

160. $5 \times (1 + 1) =$ 10

161. $3 + 9^2 =$ 84

162. $(9^2) \times (2^2) + 4 =$ 328

163. $(1 + 4) \div 3 =$ 1.667

164. $(1 + 1)(8 + 5) =$ 26

165. $5(4 + 8) =$ 60

166. $7 \times 5 + 6 =$ 41

167. $9 \times (2 + 9) =$ 99

168. $4 + 1 + 4 + 5 =$ 14

169. $1 \times 2 + 4 =$ 6

170. $(1 + 8)^2 + (7 + 3)^2 =$ 181

171. $(7 + 5)^2 + (6 + 4)^2 =$ 244

172. $3 \times 9 + 4 =$ 31

173. $4 + 8^2 =$ 68

174. $6 \times (2 + 1) =$ 18

175. $(3 + 3)^2 + (5 + 1)^2 =$ 72

176. $2 + 8 + 3 + 2 =$ 15

177. $(5 + 9)^2 = 196$

178. $1 \times (9 + 9) = 18$

179. $6 + 7 + 3 + 8 = 24$

180. $(1 + 2)^2 = 9$

181. $3 \times (3 + 5) = 24$

182. $7 + 1 - 8 + 4 = 4$

183. $(4 + 6) \div 3 = 3.333$

184. $6 \times (3 + 3) = 36$

185. $2 + 9 - 2 + 3 = 12$

186. $6 \times 1 + 3 = 9$

187. $(3 + 5)^2 = 64$

188. $5(7 + 8) = 75$

189. $4(7 + 4) = 44$

190. $(6 + 3)^2 = 81$

191. $1 \times (5 + 8) = 13$

192. $(5^2) \times (9^2) + 8 = 2{,}033$

193. $7 \times 5 + 4 = 39$

194. $3 + 7^2 = 52$

195. $(4 + 7)(9 + 9) = 198$

196. $(6 + 8) \times (7 + 1) = 112$

197. $5 \times 4 \times 7 = 140$

198. $8 + 8^2 = 72$

199. $(9 + 7) \div 8 = 2$

200. $8 \times 9 \times 7 = 504$

201. $1 + 9^2 = 82$

202. $(7^2) \times (4^2) + 2 = 786$

203. $(1 + 5) \div 8 = 0.75$

204. $2 + 2^2 + 4 + 7^2 = 59$

205. $2 \times 7 + 5 = 19$

206. $5 + 8^2 = 69$

207. $(3 + 6)^2 = 81$

208. $9 + 4^2 = 25$

209. $2 + 8 - 3 + 6 = 13$

210. $(1 + 6)(3 + 9) = 84$

211. $9 + 5 - 6 + 2 = 10$

212. $(7 \times 7) - (3 + 8) = 38$

213. $8 + 1^2 + 9 + 5^2 = 43$

214. $(9 \times 1) - (7 + 6) = -4$

215. $1(3 + 1) = 4$

216. $(8 + 3) \div 1 = 11$

217. $(7 \times 2) - (2 + 6) = 6$

218. $6 \times 6 + 8 = 44$

219. $(5^2) \times (5^2) + 3 = 628$

220. $9 \times 2 \times 5 = 90$

Solve the following.

221. Sandra baby-sat for 14 hours over two weeks. She earned $4.00 an hour. What was her gross pay?

$56.00

222. How much will Sharon earn if she earns $4.80 for each hour worked, works 47 hours, and has payroll deductions of $65.42?

$160.18

223. How much will Brian earn if he earns $8.20 per hour and works 30 hours?

$246.00

224. Marin's gross pay is $284.20. After deductions of 27% what is her net pay?

$207.47

225. If Paul earns $176.40 after deductions of $75.60 and after working 21 hours what is the hourly rate?

$12.00

226. If Amy earns $253.80 after working 47 hours what is the hourly rate?

$5.40

227. Steven's net pay is $245.86 after deductions of $73.44. He makes $10.30 per hour. How many hours did he work?

31 hours

228. What is Adam's net pay if he earns $4.50 for each hour worked, works 11 hours, and has payroll deductions of 20%?

$39.60

229. Janet's gross pay is $288.60. After deductions of 23% what is her net pay?

$222.22

230. If Jennifer earns $232.30 after working 23 hours what is the hourly rate?

$10.10

231. How much will David earn if he earns $14.10 per hour and works 50 hours?

$705.00

232. What is Paul's net pay if he earns $12.90 for each hour worked, works 28 hours, and has payroll deductions of 20%?

$288.96

233. If Adam earns $153.09 after deductions of $65.61 and after working 27 hours what is the hourly rate?

$8.10

234. Ellen baby-sat for 18 hours over two weeks. She earned $4.80 an hour. What was her gross pay?

$86.40

235. Brian's net pay is $195.99 after deductions of $31.91. He makes $5.30 per hour. How many hours did he work?

43 hours

236. How much will Marin earn if she earns $11.00 for each hour worked, works 31 hours, and has payroll deductions of $34.10?

$306.90

237. If Billy earns $263.25 after deductions of $74.25 and after working 25 hours what is the hourly rate?

$13.50

238. If Amy earns $569.80 after working 37 hours what is the hourly rate?

$15.40

239. Jackie's gross pay is $152.00. After deductions of 19% what is her net pay?

$123.12

240. How much will Paul earn if he earns $15.10 per hour and works 46 hours?

$694.60

Express the currency values in words.

241. $38.94 thirty-eight dollars ninety-four cents

242. $61.42 sixty-one dollars forty-two cents

243. $3.32 three dollars thirty-two cents

244. $77.17 seventy-seven dollars seventeen cents

245. $94.58 ninety-four dollars fifty-eight cents

246. $63.10 sixty-three dollars ten cents

247. $86.58 eighty-six dollars fifty-eight cents

248. $90.85 ninety dollars eighty-five cents

249. $19.97 nineteen dollars ninety-seven cents

250. $48.86 forty-eight dollars eighty-six cents

Solve.

hot dog = $1.20	cola = $1.00
order of French-fries = $0.70	ice cream cone = $1.30
hamburger = $2.40	milk shake = $2.80
deluxe cheeseburger = $3.20	taco = $2.60

251. $6.70 If Marin wanted to buy a deluxe cheeseburger, a milk shake, and an order of French-fries, how much would it cost her?

252. $2.40 Steven wants to buy a hamburger. How much will it cost him?

253. $5.40 Ellen purchases an ice cream cone, a taco, and an order of French-fries. How much change will she get back from $10.00?

254. $3.57 What is the total cost of a hamburger and a cola if the sales tax is five percent?

255. $7.60 If Allan buys a hamburger, how much money will he get back if he pays $10.00?

256. $7.14 What is the total cost of a hamburger, a hot dog, and a deluxe cheeseburger if there is a 5% sales tax?

257. $5.36 What is the total cost of a milk shake, a cola, and an ice cream cone if there is a 5% sales tax?

258. $3.80 If Donald wanted to buy a taco and a hot dog, how much would it cost him?

259. $0.74 What is the total cost of an order of French-fries if the sales tax is five percent?

260. $1.30 Brian wants to buy an ice cream cone. How much will it cost him?

Compare the fractions.

261. $\frac{5}{8}$ > $\frac{2}{8}$ 262. $\frac{3}{4}$ > $\frac{1}{4}$ 263. $\frac{4}{5}$ > $\frac{2}{5}$ 264. $\frac{2}{3}$ > $\frac{1}{3}$ 265. $\frac{4}{6}$ > $\frac{3}{6}$ 266. $\frac{1}{8}$ < $\frac{6}{8}$ 267. $\frac{2}{6}$ < $\frac{5}{6}$

268. $\frac{3}{5}$ = $\frac{3}{5}$ 269. $\frac{1}{3}$ = $\frac{1}{3}$ 270. $\frac{1}{5}$ < $\frac{2}{5}$

Compare the fractions.

271. $\frac{1}{5}$ < $\frac{3}{4}$ 272. $\frac{1}{8}$ < $\frac{2}{3}$ 273. $\frac{2}{3}$ < $\frac{3}{4}$ 274. $\frac{1}{5}$ < $\frac{7}{8}$ 275. $\frac{5}{6}$ > $\frac{2}{5}$ 276. $\frac{1}{4}$ < $\frac{2}{6}$ 277. $\frac{2}{3}$ > $\frac{2}{8}$

278. $\frac{3}{5}$ < $\frac{3}{4}$ 279. $\frac{4}{6}$ > $\frac{1}{3}$ 280. $\frac{2}{8}$ < $\frac{2}{5}$

Divide.

281. $6 \div \frac{1}{5} = 30$ 282. $7 \div \frac{2}{3} = 10\frac{1}{2}$ 283. $6 \div \frac{1}{6} = 36$ 284. $7 \div \frac{2}{4} = 14$

285. $8 \div \frac{1}{4} = 32$ 286. $4 \div \frac{5}{6} = 4\frac{4}{5}$ 287. $5 \div \frac{2}{8} = 20$ 288. $5 \div \frac{1}{5} = 25$

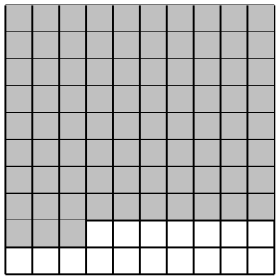
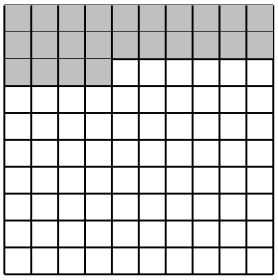
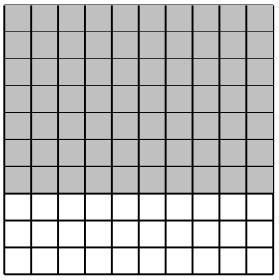
289. $1 \div \frac{2}{3} = 1\frac{1}{2}$ 290. $5 \div \frac{1}{6} = 30$

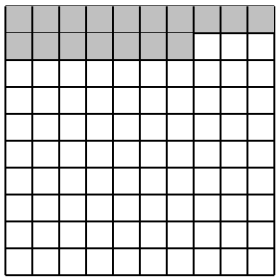
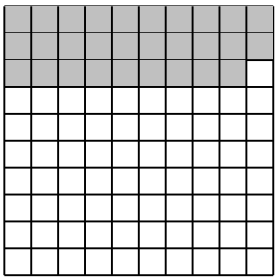
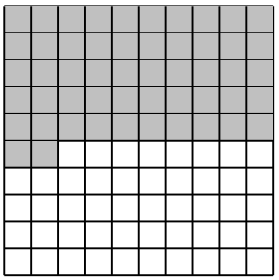
Complete the equivalent fractions.

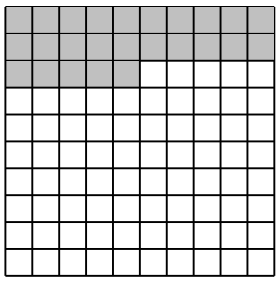
291. $\frac{1}{5} = \frac{9}{45}$ 292. $\frac{2}{3} = \frac{8}{12}$ 293. $\frac{4}{8} = \frac{24}{48}$ 294. $\frac{2}{4} = \frac{10}{20}$ 295. $\frac{2}{4} = \frac{8}{16}$ 296. $\frac{1}{6} = \frac{5}{30}$

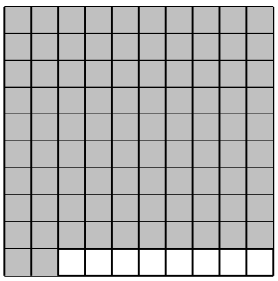
297. $\frac{1}{3} = \frac{6}{18}$ 298. $\frac{3}{5} = \frac{21}{35}$ 299. $\frac{2}{8} = \frac{4}{16}$ 300. $\frac{1}{6} = \frac{9}{54}$

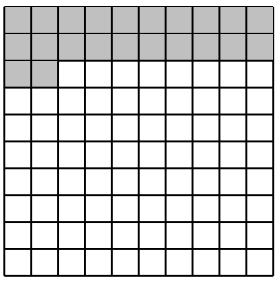
Color the fraction.

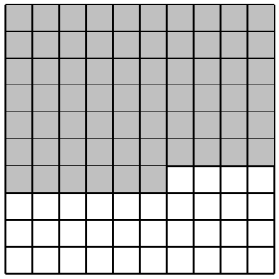
301.  = $\frac{83}{100}$ 302.  = $\frac{6}{25}$ 303.  = $\frac{7}{10}$

304.  = $\frac{17}{100}$ 305.  = $\frac{29}{100}$ 306.  = $\frac{13}{25}$

307.  = $\frac{1}{4}$

308.  = $\frac{23}{25}$

309.  = $\frac{11}{50}$

310.  = $\frac{33}{50}$

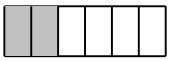
Color the fraction.

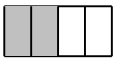
311. = $\frac{3}{4}$

312. = $\frac{1}{2}$

313. = $\frac{3}{6}$

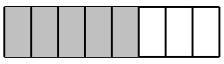
314. = $\frac{2}{3}$

315.  = $\frac{2}{6}$

316.  = $\frac{2}{4}$

317. = $\frac{1}{3}$

318. = $\frac{4}{5}$

319.  = $\frac{5}{8}$

320. = $\frac{6}{8}$

Find the sum.

321. $\frac{2}{3} + \frac{2}{3} = 1\frac{1}{3}$

322. $\frac{1}{5} + \frac{4}{5} = 1$

323. $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$

324. $\frac{5}{8} + \frac{2}{8} = \frac{7}{8}$

325. $\frac{3}{6} + \frac{1}{6} = \frac{2}{3}$

326. $\frac{2}{8} + \frac{6}{8} = 1$

327. $\frac{3}{6} + \frac{4}{6} = 1\frac{1}{6}$

328. $\frac{1}{4} + \frac{1}{4} = \frac{1}{2}$

329. $\frac{4}{8} + \frac{2}{8} = \frac{3}{4}$

330. $\frac{1}{5} + \frac{3}{5} = \frac{4}{5}$

Convert.

331. $\frac{2}{8} = 0.25$

332. $\frac{2}{4} = 0.5$

333. $\frac{1}{3} = 0.333$

334. $\frac{3}{4} = 0.75$

335. $\frac{2}{6} = 0.333$

336. $\frac{5}{8} = 0.625$

337. $\frac{1}{5} = 0.2$

338. $\frac{2}{3} = 0.667$

339. $\frac{4}{5} = 0.8$

340. $\frac{3}{8} = 0.375$

Find the product.

341. $\frac{1}{6} \times \frac{4}{6} = \frac{1}{9}$ 342. $\frac{2}{6} \times \frac{4}{6} = \frac{2}{9}$ 343. $\frac{4}{8} \times \frac{3}{8} = \frac{3}{16}$ 344. $\frac{1}{5} \times \frac{1}{5} = \frac{1}{25}$ 345. $\frac{3}{4} \times \frac{1}{4} = \frac{3}{16}$

346. $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$ 347. $\frac{2}{4} \times \frac{3}{4} = \frac{3}{8}$ 348. $\frac{2}{5} \times \frac{4}{5} = \frac{8}{25}$ 349. $\frac{3}{6} \times \frac{4}{6} = \frac{1}{3}$ 350. $\frac{4}{8} \times \frac{4}{8} = \frac{1}{4}$

Find the difference.

351. $\frac{3}{4} - \frac{1}{4} = \frac{1}{2}$ 352. $\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$ 353. $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$ 354. $\frac{4}{8} - \frac{2}{8} = \frac{1}{4}$ 355. $\frac{5}{6} - \frac{4}{6} = \frac{1}{6}$

356. $\frac{4}{6} - \frac{1}{6} = \frac{1}{2}$ 357. $\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$ 358. $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$ 359. $\frac{7}{8} - \frac{3}{8} = \frac{1}{2}$ 360. $\frac{4}{5} - \frac{3}{5} = \frac{1}{5}$

Convert.

361. $1\frac{4}{6} = \frac{5}{3}$ 362. $6\frac{6}{8} = \frac{27}{4}$ 363. $2\frac{1}{4} = \frac{9}{4}$ 364. $5\frac{2}{8} = \frac{21}{4}$ 365. $8\frac{1}{6} = \frac{49}{6}$ 366. $2\frac{2}{4} = \frac{5}{2}$

367. $5\frac{1}{5} = \frac{26}{5}$ 368. $8\frac{7}{8} = \frac{71}{8}$ 369. $9\frac{1}{4} = \frac{37}{4}$ 370. $2\frac{4}{5} = \frac{14}{5}$

Calculate.

371. $7\frac{1}{8} + 2\frac{5}{8} = 9\frac{3}{4}$ 372. $6\frac{1}{3} + 9\frac{2}{3} = 16$ 373. $7\frac{2}{5} + 2\frac{1}{5} = 9\frac{3}{5}$ 374. $5\frac{3}{4} + 2\frac{2}{4} = 8\frac{1}{4}$

375. $8\frac{4}{5} + 6\frac{1}{5} = 15$ 376. $4\frac{6}{8} + 7\frac{6}{8} = 12\frac{1}{2}$ 377. $9\frac{3}{6} + 5\frac{1}{6} = 14\frac{2}{3}$ 378. $8\frac{3}{4} + 8\frac{1}{4} = 17$

379. $4\frac{1}{3} + 7\frac{2}{3} = 12$ 380. $2\frac{7}{8} + 9\frac{2}{8} = 12\frac{1}{8}$

Multiply.

381. $\frac{4}{6}$ of $8 = 5\frac{1}{3}$ 382. $\frac{4}{5}$ of $8 = 6\frac{2}{5}$ 383. $\frac{6}{8}$ of $6 = 4\frac{1}{2}$ 384. $\frac{2}{8}$ of $6 = 1\frac{1}{2}$

385. $\frac{2}{3}$ of $6 = 4$ 386. $\frac{2}{6}$ of $2 = \frac{2}{3}$ 387. $\frac{3}{5}$ of $2 = 1\frac{1}{5}$ 388. $\frac{1}{4}$ of $1 = \frac{1}{4}$

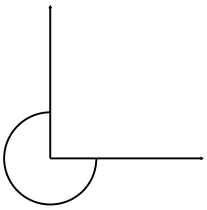
389. $\frac{1}{4}$ of $3 = \frac{3}{4}$ 390. $\frac{3}{8}$ of $6 = 2\frac{1}{4}$

Simplify the fractions.

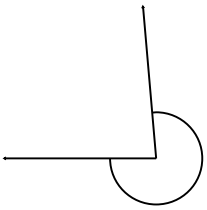
391. $\frac{32}{40} = \frac{4}{5}$ 392. $\frac{4}{12} = \frac{1}{3}$ 393. $\frac{4}{32} = \frac{1}{8}$ 394. $\frac{12}{16} = \frac{3}{4}$ 395. $\frac{8}{24} = \frac{1}{3}$ 396. $\frac{10}{15} = \frac{2}{3}$

397. $\frac{6}{48} = \frac{1}{8}$ 398. $\frac{9}{15} = \frac{3}{5}$ 399. $\frac{3}{9} = \frac{1}{3}$ 400. $\frac{28}{42} = \frac{2}{3}$

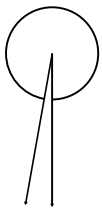
Classify and measure the angles.

401. 

Reflex

402. 

Reflex

403. 

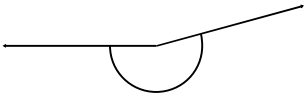
Reflex

404.

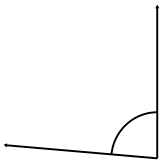
Obtuse

405.

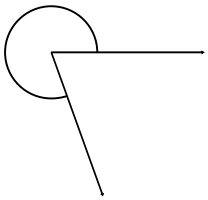
Straight

406. 

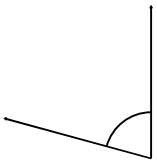
Reflex

407. 

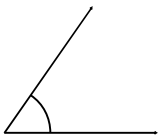
Acute

408. 

Reflex

409. 

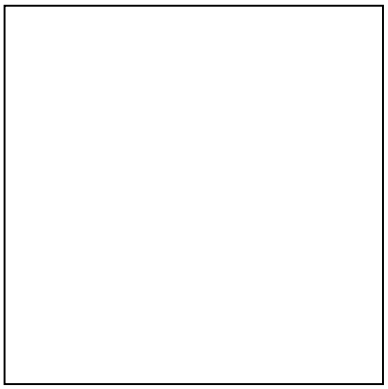
Acute

410. 

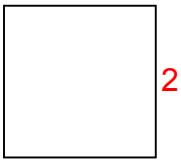
Acute

Measure the rectangles.

411.

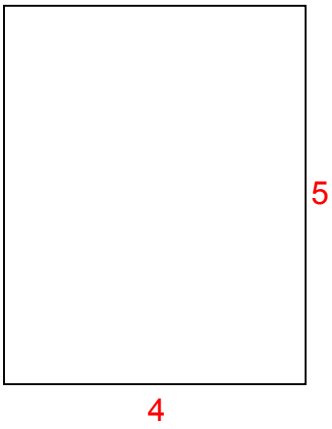


412.

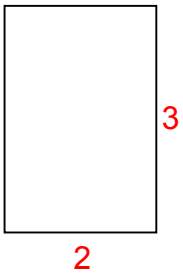


413.

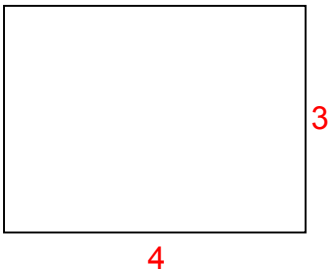
414.



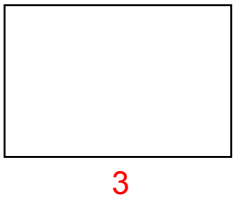
415.



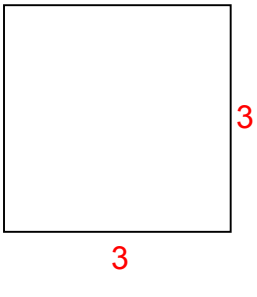
416.



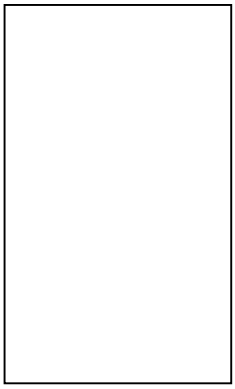
417.



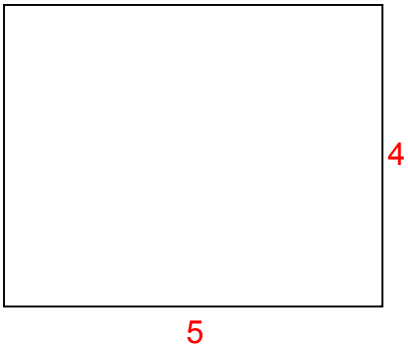
418.



419.

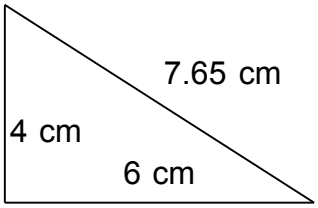


420.



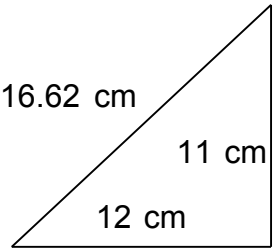
Find the perimeter and area.

421.



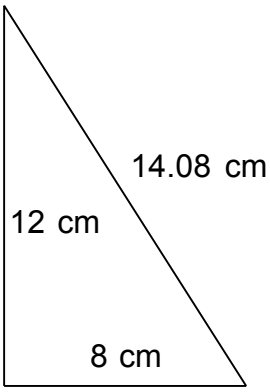
P = 17.65 cm A = 12 cm²

422.



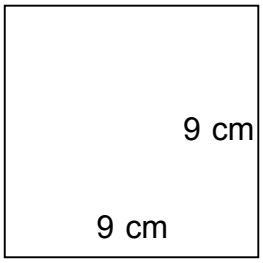
P = 39.62 cm A = 66 cm²

423.



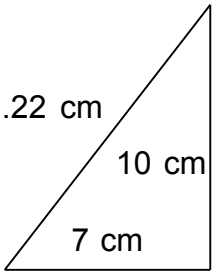
P = 34.08 cm A = 48 cm²

424.



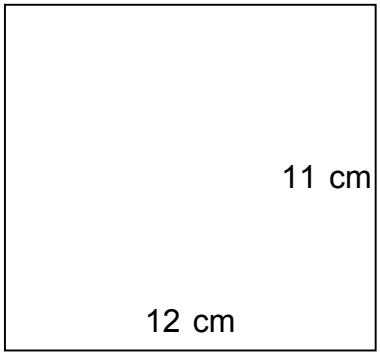
P = 36 cm A = 81 cm²

425.



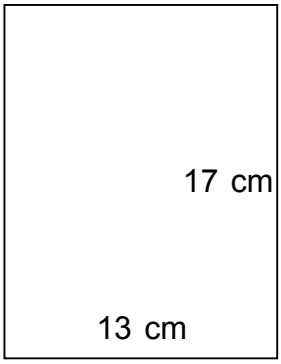
P = 29.22 cm A = 35 cm²

426.



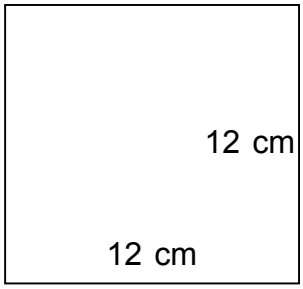
P = 46 cm A = 132 cm²

427.



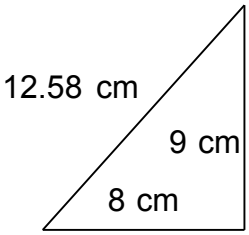
P = 60 cm A = 221 cm²

428.



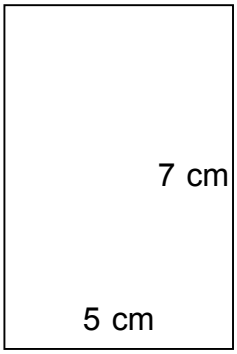
P = 48 cm A = 144 cm²

429.



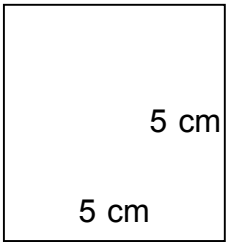
P = 29.58 cm A = 36 cm²

430.



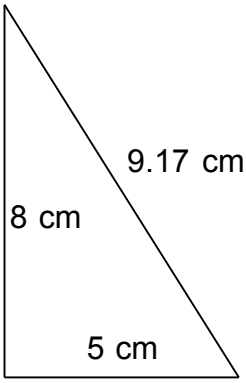
P = 24 cm A = 35 cm²

431.



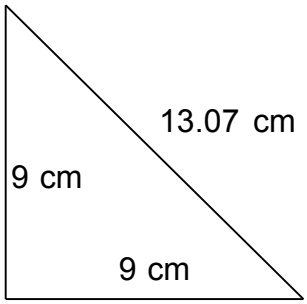
P = 20 cm A = 25 cm²

432.



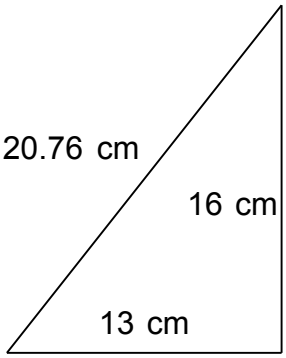
P = 22.17 cm A = 20 cm²

433.



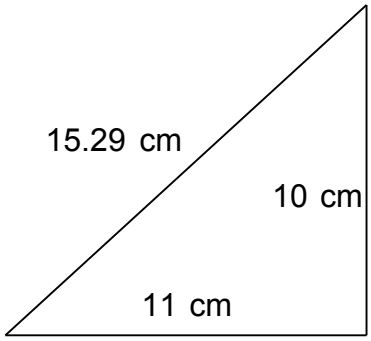
P = 31.07 cm A = 40.5 cm²

434.



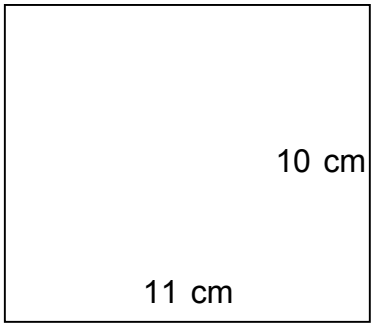
P = 49.76 cm A = 104 cm²

435.



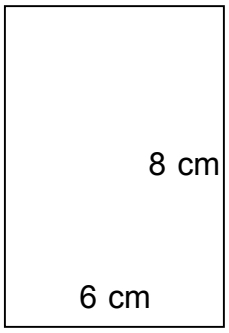
P = 36.29 cm A = 55 cm²

436.



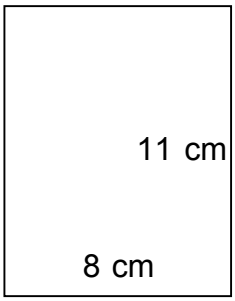
P = 42 cm A = 110 cm²

437.



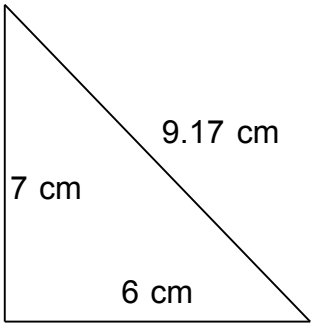
P = 28 cm A = 48 cm²

438.



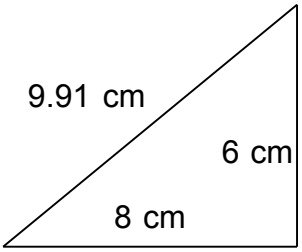
P = 38 cm A = 88 cm²

439.



P = 22.17 cm A = 21 cm²

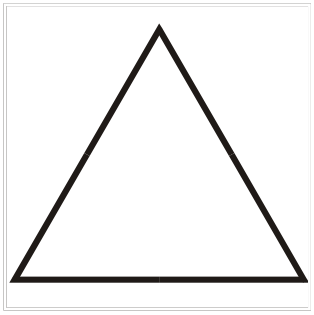
440.



P = 23.91 cm A = 24 cm²

Identify the polygons.

441.

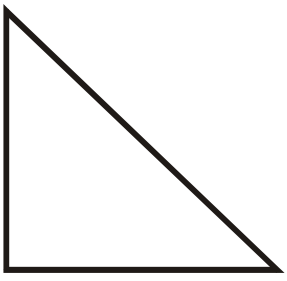


Equilateral Triangle

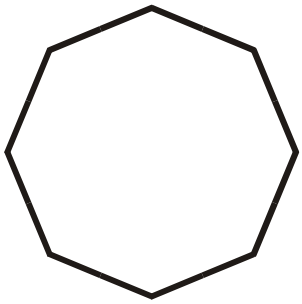
442.

Parallelogram

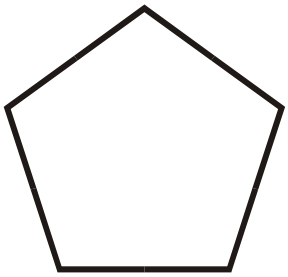
443.



Right Triangle

444. 

Regular Octagon

445. 

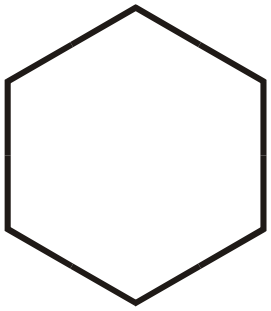
Regular Pentagon

446.

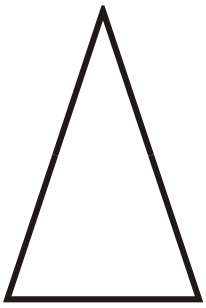
Scalene Triangle

447.

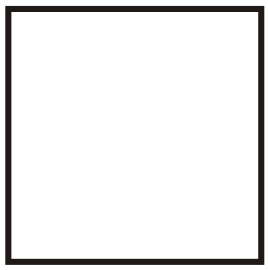
Rectangle

448. 

Regular Hexagon

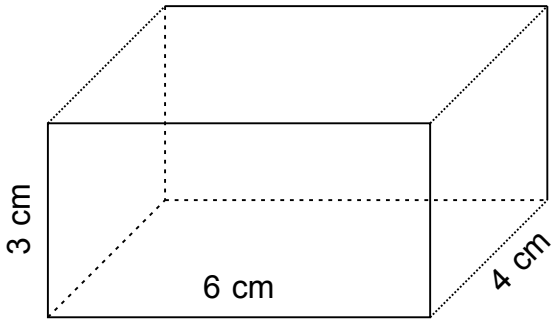
449. 

Isosceles Triangle

450. 

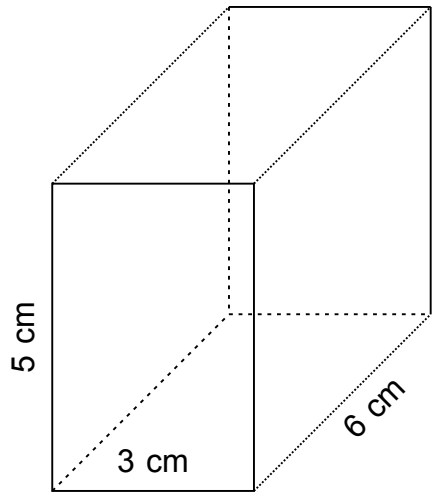
Square

Find the volume.

451. 

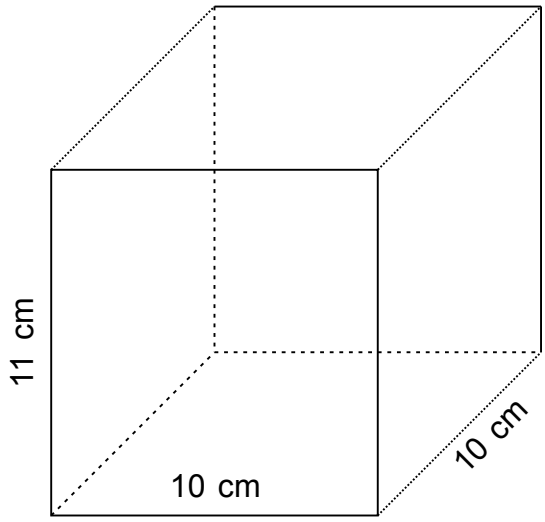
V = 72 cm³ SA = 108 cm²

452.



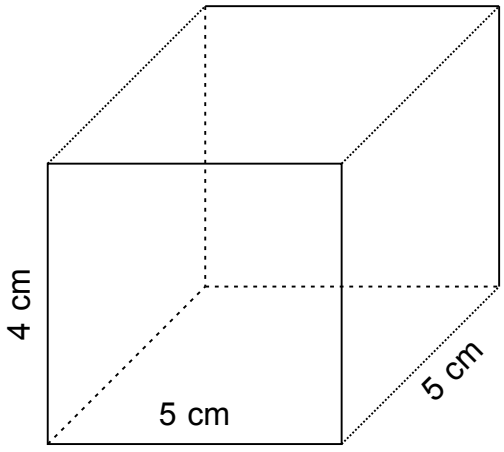
V = 90 cm³ SA = 126 cm²

453.



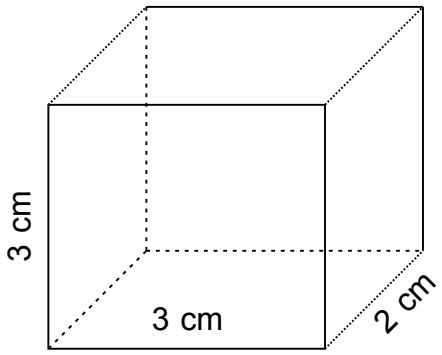
V = 1,100 cm³ SA = 640 cm²

454.



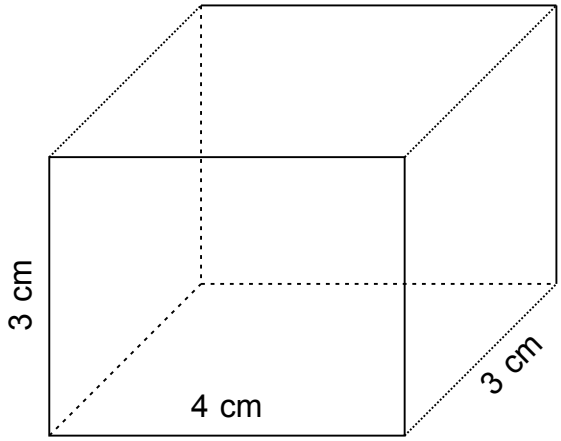
V = 100 cm³ SA = 130 cm²

455.



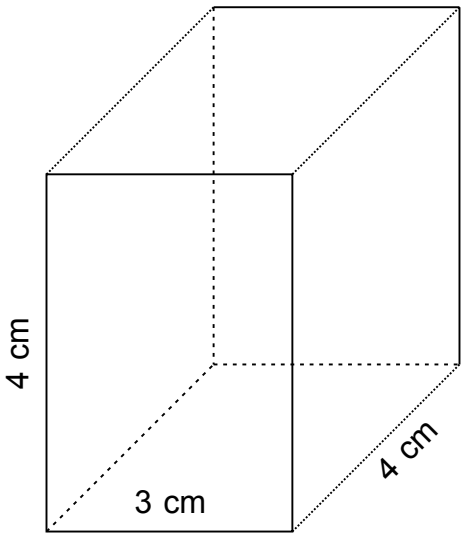
V = 18 cm³ SA = 42 cm²

456.



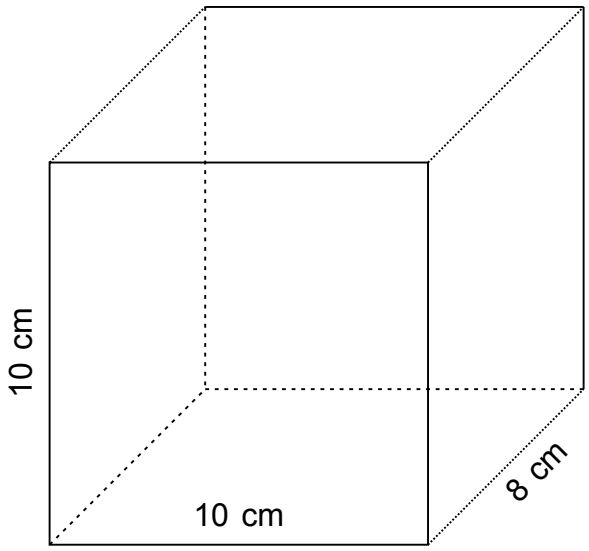
V = 36 cm³ SA = 66 cm²

457.



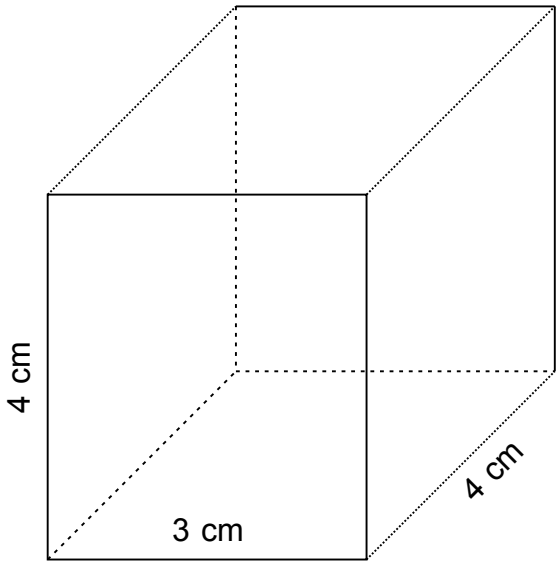
V = 48 cm³ SA = 80 cm²

458.



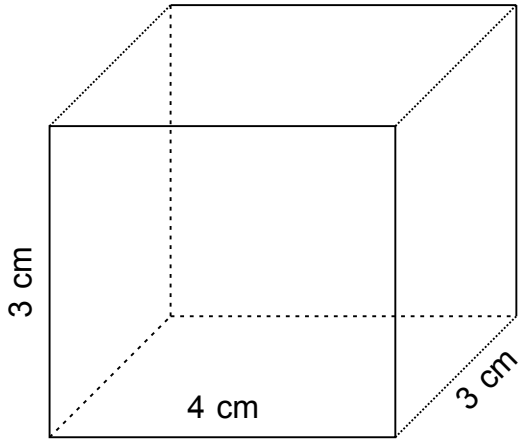
V = 800 cm³ SA = 520 cm²

459.



V = 48 cm³ SA = 80 cm²

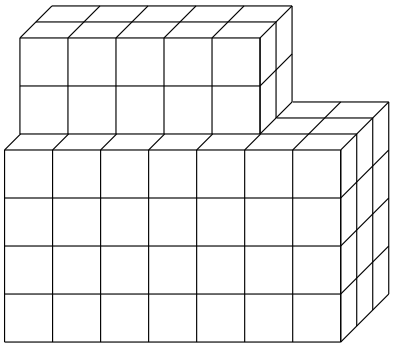
460.



V = 36 cm³ SA = 66 cm²

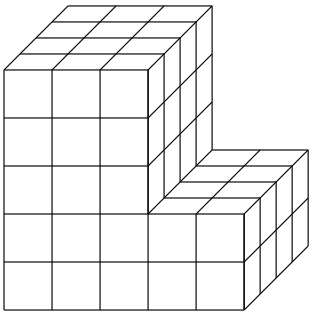
Determine the number of cubes.

461.



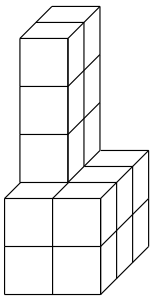
104 cubic units

462.



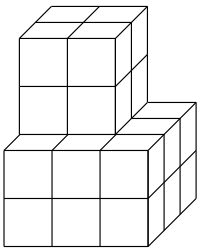
76 cubic units

463.



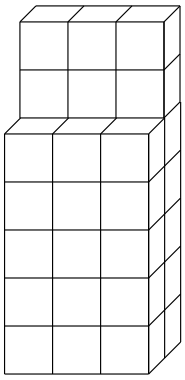
18 cubic units

464.



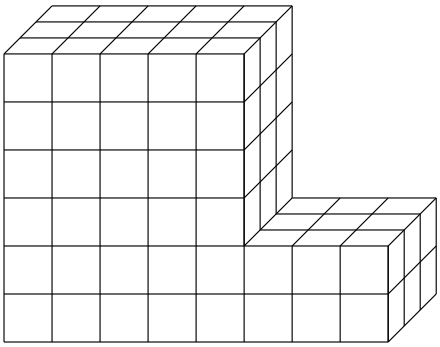
26 cubic units

465.



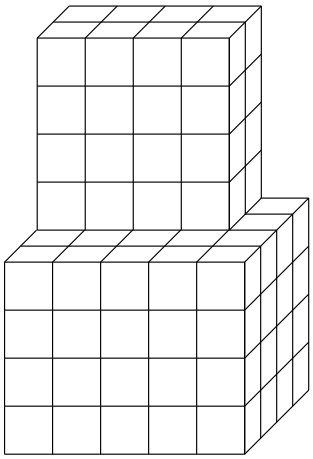
36 cubic units

466.



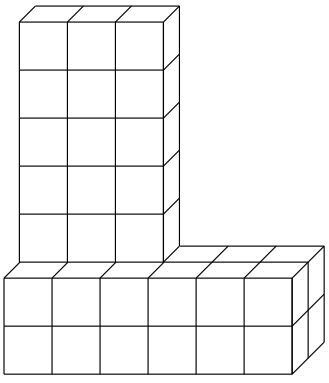
108 cubic units

467.



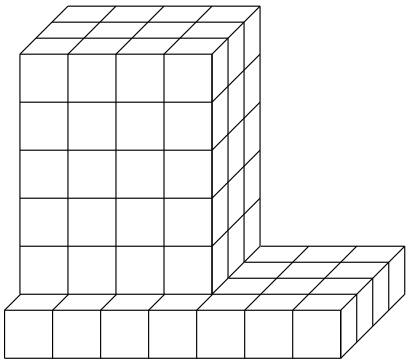
112 cubic units

468.



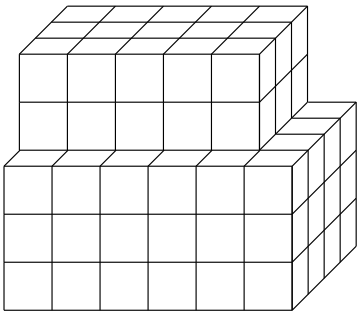
39 cubic units

469.



88 cubic units

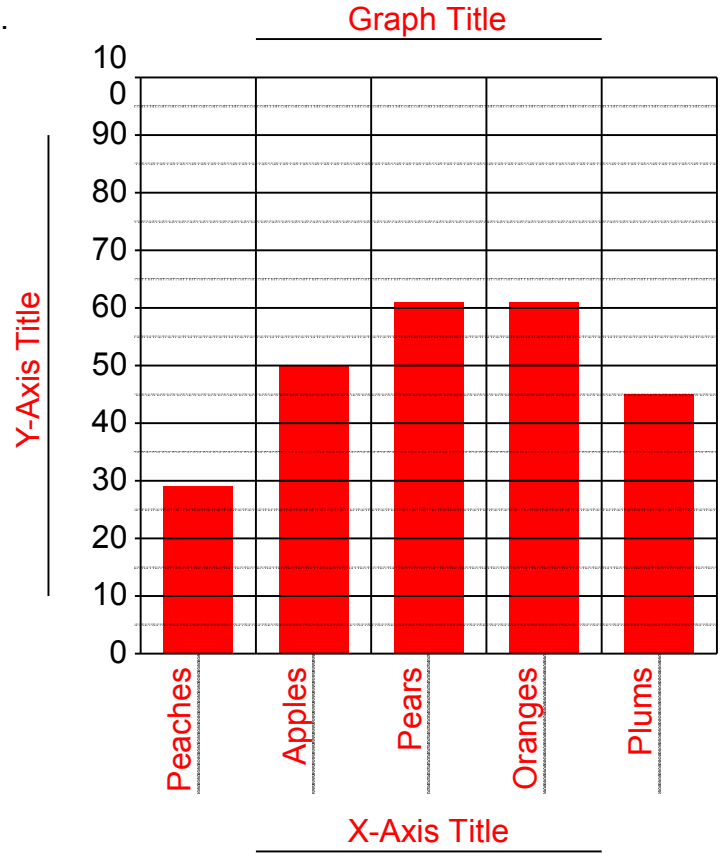
470.



102 cubic units

Complete the graph.

471.

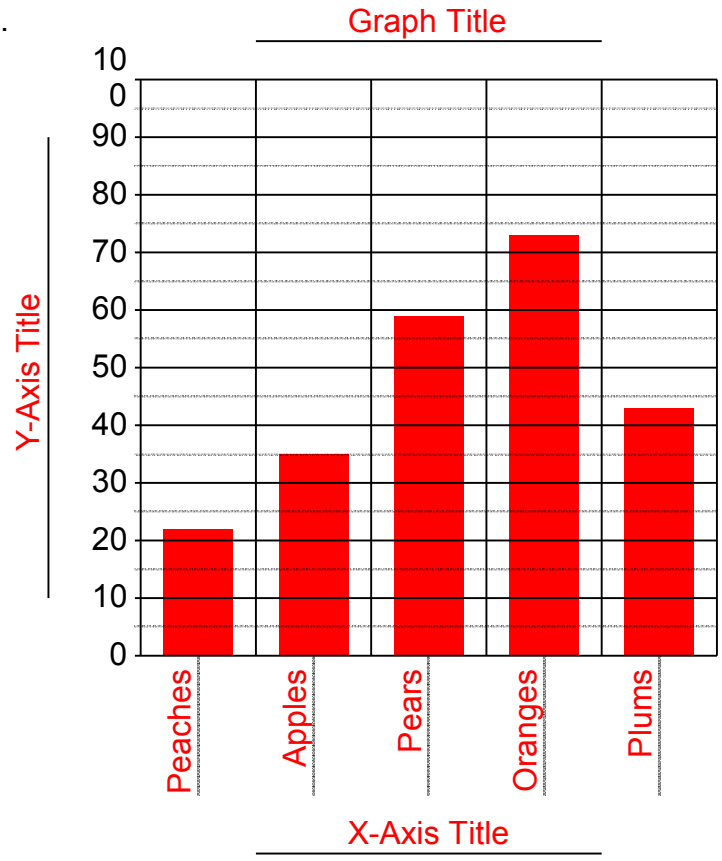


Graph Title

X-Axis Title	Y-Axis Title
Peaches	29
Apples	50
Pears	61
Oranges	61
Plums	45

Complete the graph.

472.

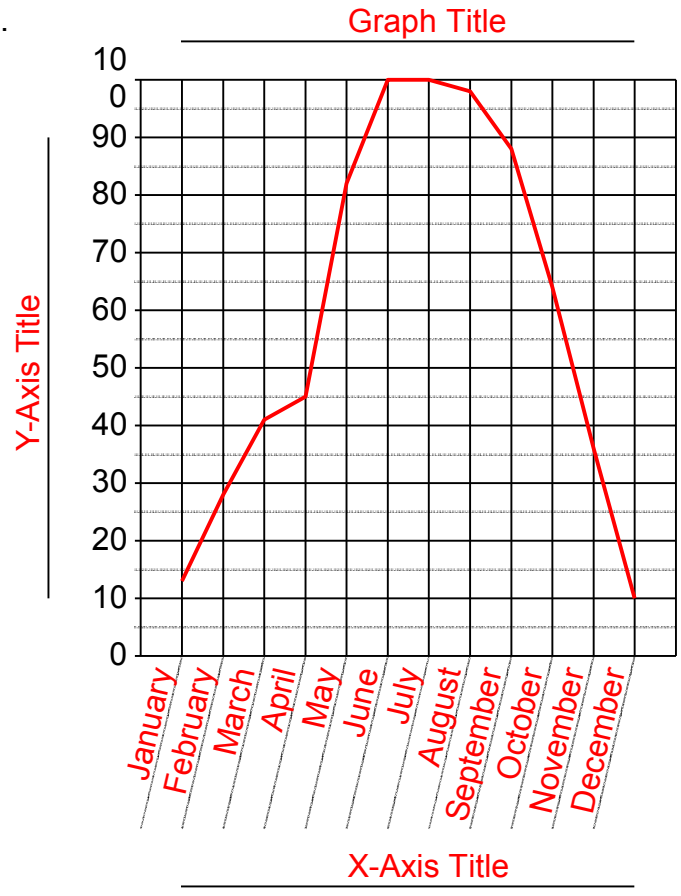


Graph Title

X-Axis Title	Y-Axis Title
Peaches	22
Apples	35
Pears	59
Oranges	73
Plums	43

Complete the graph.

473.

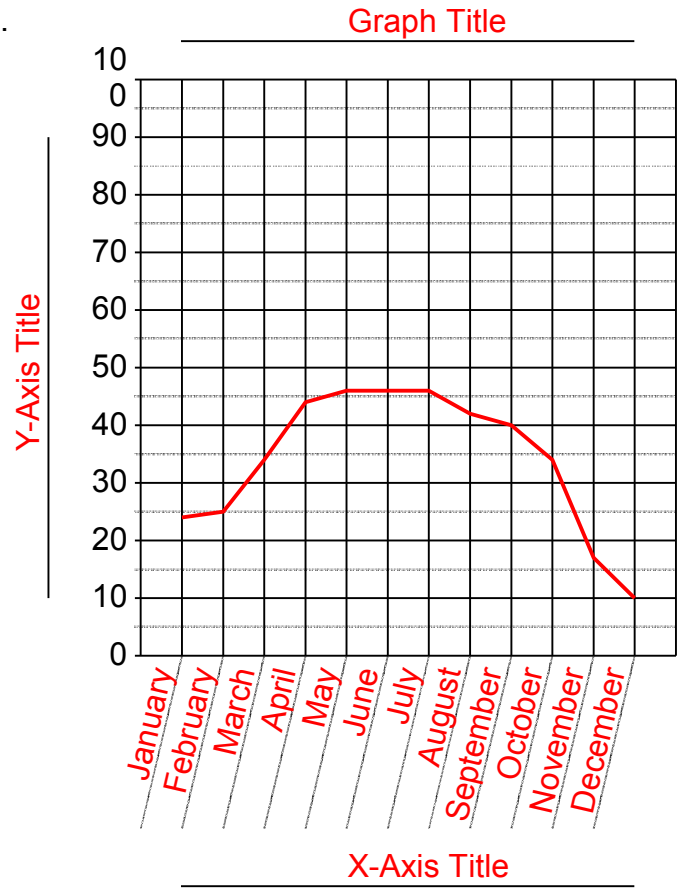


Graph Title

X-Axis Title	Y-Axis Title
January	13
February	28
March	41
April	45
May	82
June	100
July	100
August	98
September	88
October	64
November	36
December	10

Complete the graph.

474.



Graph Title

X-Axis Title	Y-Axis Title
January	24
February	25
March	34
April	44
May	46
June	46
July	46
August	42
September	40
October	34
November	17
December	10

Convert the given measures to new units.

475. 13 km = 13,000,000 mm

476. 40 km = 40,000 m

477. 30 mm = 0.00003 km

478. 92 km = 92,000 m

479. 18 cm = 0.00018 km

480. 57 mm = 0.057 m

481. 57 km = 57,000,000 mm

482. 41 cm = 0.41 m

483. 12 m = 0.012 km

484. 42 cm = 0.00042 km

485. 82 km = 8,200,000 cm

486. 47 cm = 470 mm

487. 27 mm = 0.000027 km

488. 82 m = 0.082 km

489. 82 mm = 0.000082 km

490. 27 m = 2,700 cm

491. 10 m = 0.01 km

492. 78 mm = 0.000078 km

493. 35 m = 0.035 km

494. 57 m = 0.057 km

Convert the given measures to new units.

495. 24 mg = 0.024 g
496. 16 mg = 0.016 g
497. 78 g = 78,000 mg
498. 52 g = 52,000 mg
499. 83 mg = 0.083 g
500. 96 mg = 0.096 g
501. 34 mg = 0.034 g
502. 69 g = 69,000 mg
503. 64 g = 64,000 mg
504. 42 g = 42,000 mg

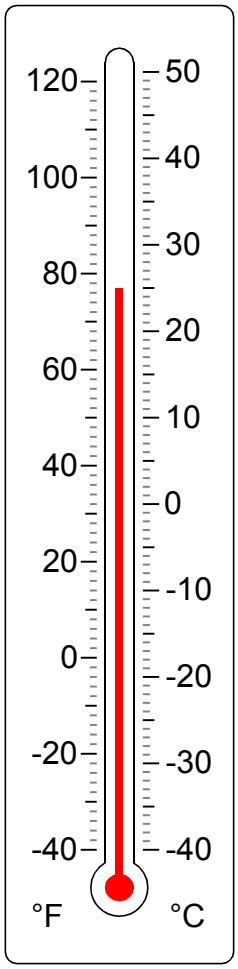
Convert the given measures to new units.

505. 12 g = 0.012 kg
506. 45 kg = 45,000 g
507. 72 g = 0.072 kg
508. 56 kg = 56,000 g
509. 76 g = 0.076 kg
510. 58 kg = 58,000 g
511. 78 g = 0.078 kg
512. 95 g = 0.095 kg
513. 28 kg = 28,000 g
514. 60 kg = 60,000 g

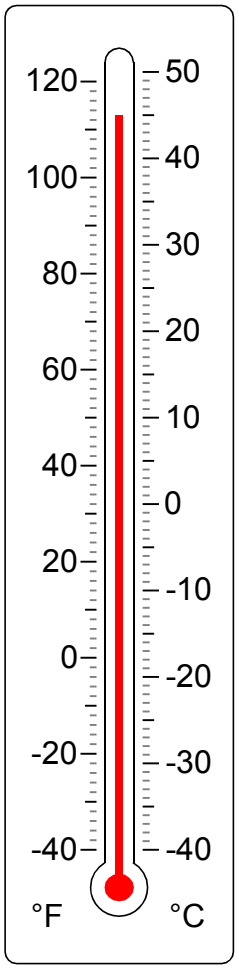
Convert the given measures to new units.

515. 31 kg = 0.031 t
516. 50 t = 50,000 kg
517. 48 t = 48,000 kg
518. 89 kg = 0.089 t
519. 61 kg = 0.061 t
520. 34 t = 34,000 kg
521. 81 kg = 0.081 t
522. 58 t = 58,000 kg
523. 31 t = 31,000 kg
524. 27 kg = 0.027 t

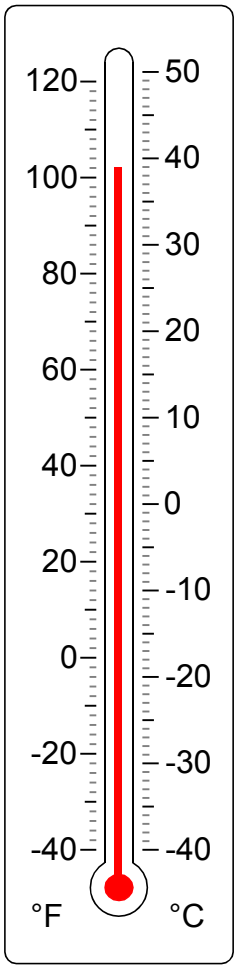
Identify the temperature for each thermometer.

525. 

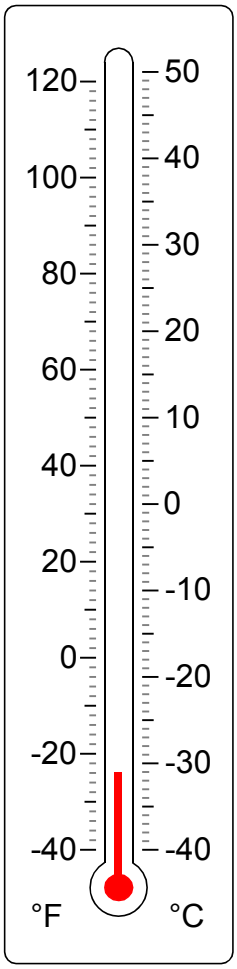
25 °C

526. 

45 °C

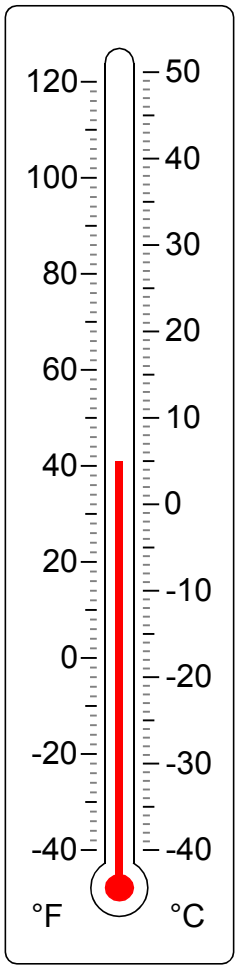
527. 

39 °C

528. 

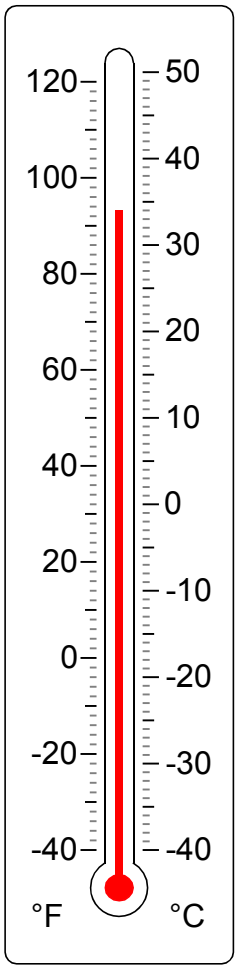
-31 °C

529.



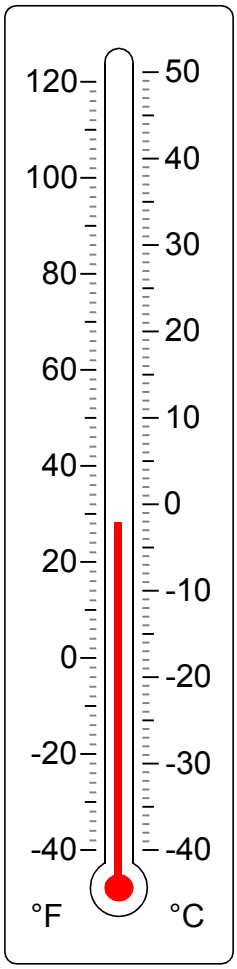
5 °C

530.



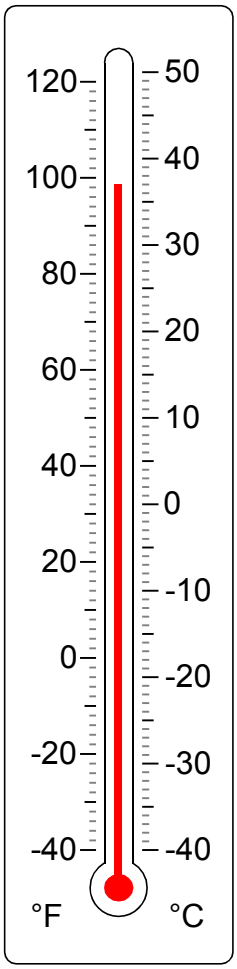
34 °C

531.



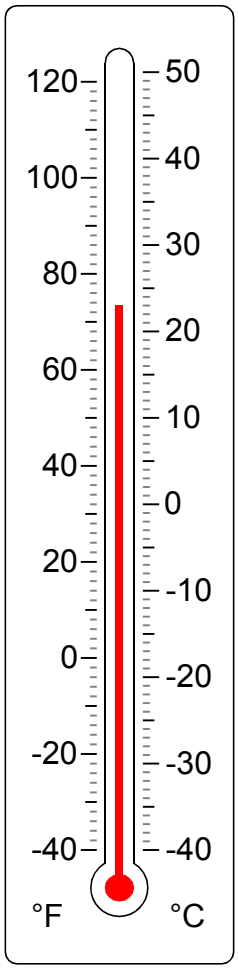
-2 °C

532.



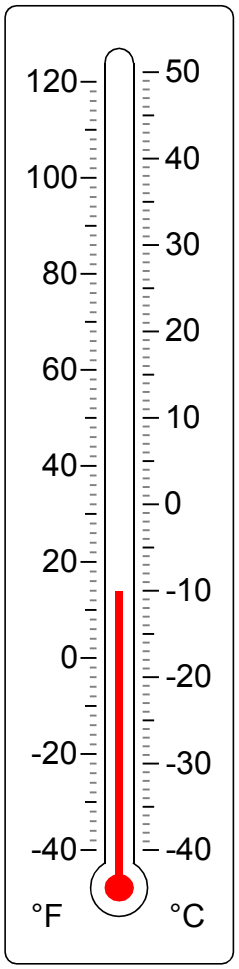
37 °C

533.



23 °C

534.



-10 °C

Convert the values.

535. 21^3 = 9,261

536. 9^3 = 729

537. 2^4 = 16

538. 22^3 = 10,648

539. 11^4 = 14,641

540. 2^2 = 4

541. 2^3 = 8

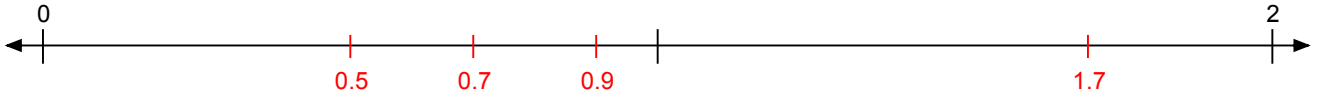
542. 10^4 = 10,000

543. 23^3 = 12,167

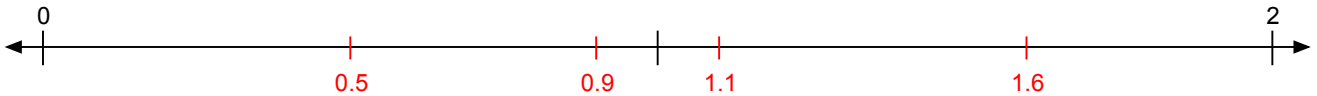
544. 21^4 = 194,481

Identify where each set of points should be placed on the number lines below.

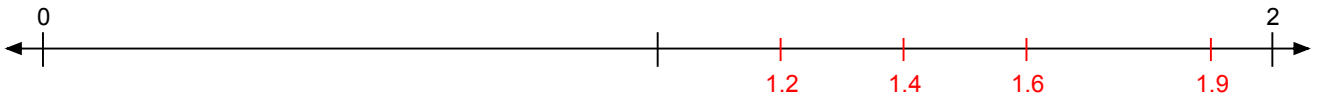
545. 0.7 0.9 1.7 0.5



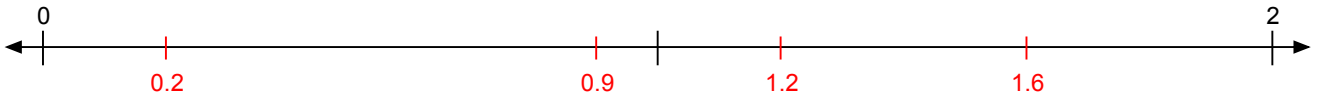
546. 0.9 0.5 1.1 1.6



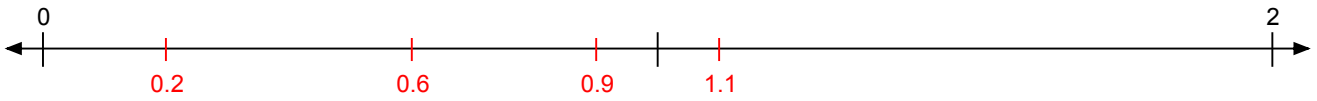
547. 1.9 1.4 1.2 1.6



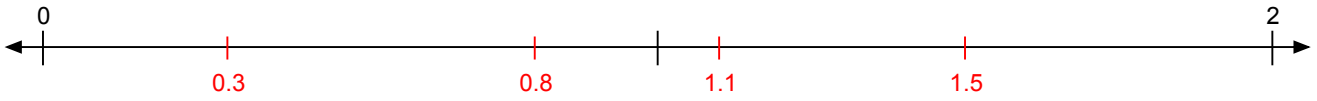
548. 0.2 1.6 0.9 1.2



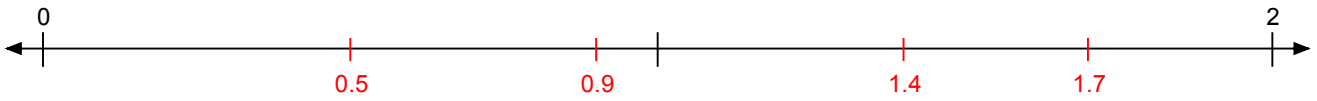
549. 0.6 0.9 1.1 0.2



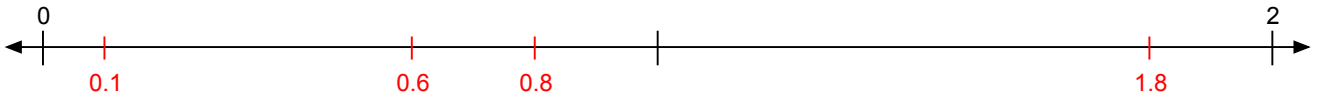
550. 0.8 1.5 1.1 0.3



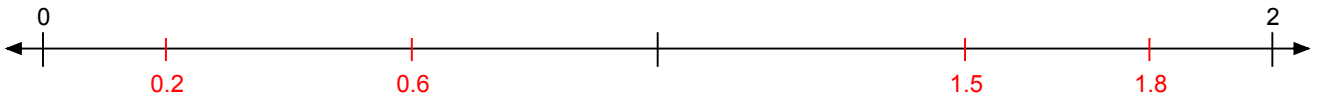
551. 1.4 0.9 1.7 0.5



552. 1.8 0.6 0.8 0.1



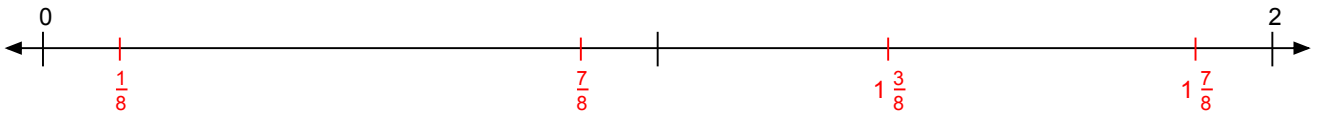
553. 1.5 1.8 0.6 0.2



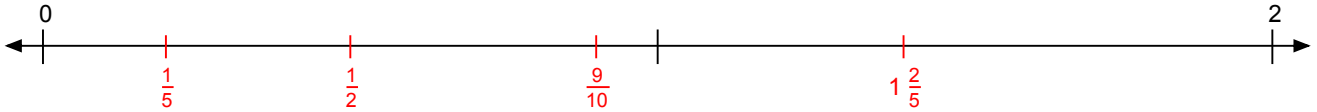
554. 1.6 1.4 1 0.1

Identify where each set of points should be placed on the number lines below.

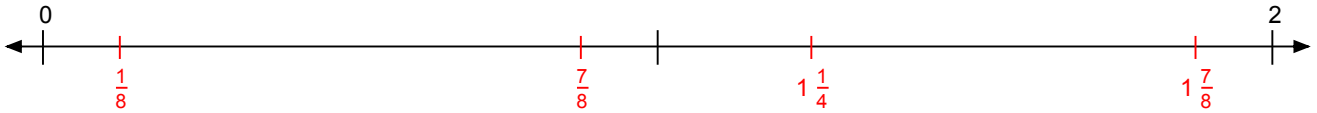
555. $\frac{7}{8}$ $1\frac{3}{8}$ $\frac{1}{8}$ $1\frac{7}{8}$



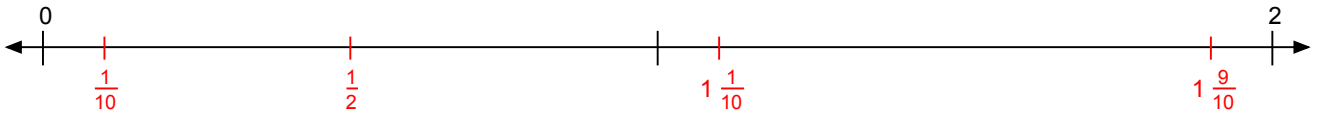
556. $\frac{9}{10}$ $1\frac{2}{5}$ $\frac{1}{5}$ $\frac{1}{2}$



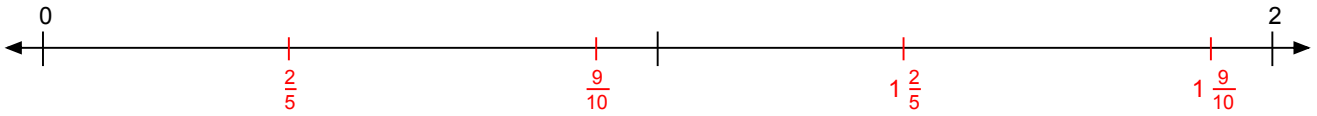
557. $\frac{1}{8}$ $\frac{7}{8}$ $1\frac{1}{4}$ $1\frac{7}{8}$



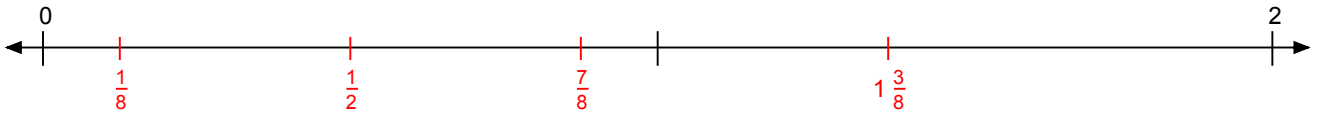
558. $1\frac{9}{10}$ $1\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{2}$



559. $1\frac{9}{10}$ $1\frac{2}{5}$ $\frac{9}{10}$ $\frac{2}{5}$



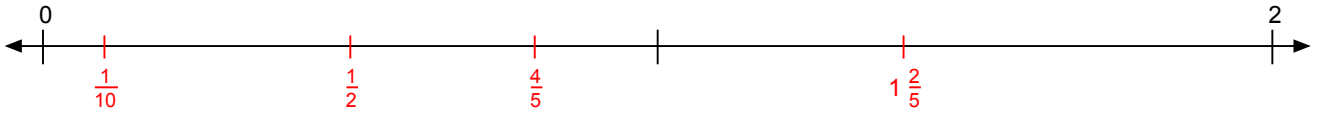
560. $\frac{7}{8}$ $\frac{1}{2}$ $1\frac{3}{8}$ $\frac{1}{8}$



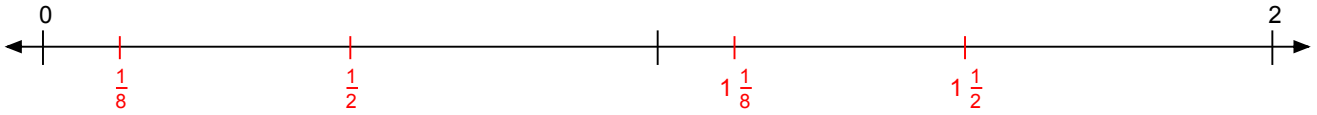
561. $\frac{2}{5}$ $1\frac{4}{5}$ $\frac{1}{10}$ 1

562. $1\frac{3}{8}$ $\frac{5}{8}$ 1 $\frac{1}{8}$

563. $\frac{4}{5}$ $\frac{1}{10}$ $1\frac{2}{5}$ $\frac{1}{2}$



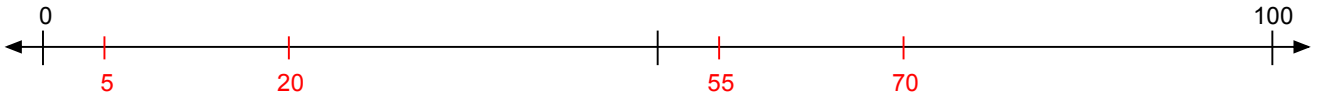
564. $\frac{1}{2}$ $\frac{1}{8}$ $1\frac{1}{8}$ $1\frac{1}{2}$



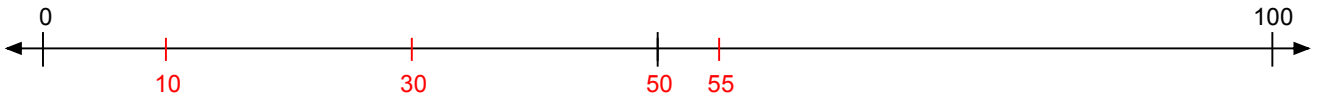
Identify where each set of points should be placed on the number lines below.

565. 30, 95, 50, 60

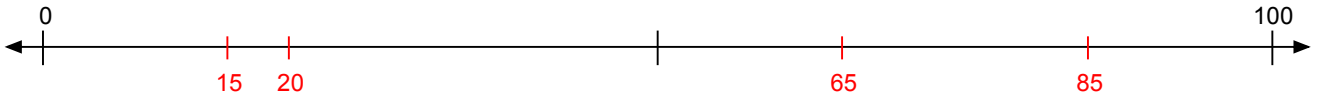
566. 55, 70, 20, 5



567. 50, 10, 55, 30

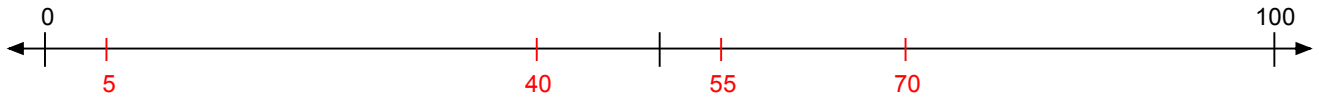


568. 20, 85, 65, 15

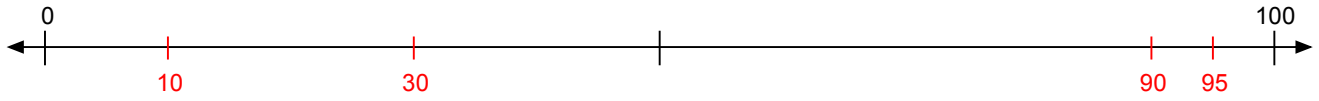


569. 65, 75, 50, 30

570. 5, 70, 55, 40

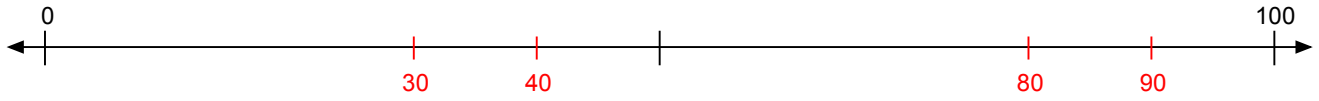


571. 30, 90, 95, 10

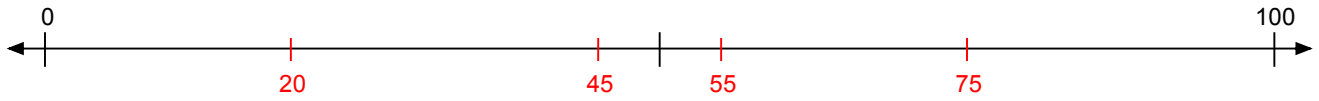


572. 50, 5, 10, 20

573. 30, 90, 80, 40



574. 75, 55, 20, 45



Complete the counting tables.

575. Count by 2 from 7 to 25

7	9	11	13	15	17	19	21	23	25

576. Count by 3 from 9 to 36

9	12	15	18	21	24	27	30	33	36

577. Count by 9 from 2 to 83

2	11	20	29	38	47	56	65	74	83

578. Count by 4 from 8 to 44

8	12	16	20	24	28	32	36	40	44

579. Count by 4 from 4 to 40

4	8	12	16	20	24	28	32	36	40

580. Count by 6 from 5 to 59

5	11	17	23	29	35	41	47	53	59

581. Count by 4 from 6 to 42

6	10	14	18	22	26	30	34	38	42

582. Count by 9 from 1 to 82

1	10	19	28	37	46	55	64	73	82

583. Count by 3 from 5 to 32

5	8	11	14	17	20	23	26	29	32

584. Count by 4 from 3 to 39

3	7	11	15	19	23	27	31	35	39

Write each value in words.

585. 2,028 two thousand twenty-eight

586. 7,465 seven thousand four hundred sixty-five

587. 6,872 six thousand eight hundred seventy-two

588. 9,788 nine thousand seven hundred eighty-eight

589. 2,372 two thousand three hundred seventy-two

590. 4,382 four thousand three hundred eighty-two

591. 8,376 eight thousand three hundred seventy-six

592. 2,400 two thousand four hundred

593. 5,359 five thousand three hundred fifty-nine

594. 4,007 four thousand seven

Provide the standard notation for each value.

595. 4,759 four thousand seven hundred fifty-nine

596. 1,791 one thousand seven hundred ninety-one

597. 5,311 five thousand three hundred eleven

598. 200 two hundred

599. 5,341 five thousand three hundred forty-one

600. 2,893 two thousand eight hundred ninety-three

601. 203 two hundred three

602. 6,268 six thousand two hundred sixty-eight

603. 9,689 nine thousand six hundred eighty-nine

604. 2,429 two thousand four hundred twenty-nine

Order the numbers.

605.

827	102
975	216
102	428
514	514
428	827
216	975

606.

424	424
955	629
888	787
629	888
787	954
954	955

607.

167	167
963	432
771	770
770	771
817	817
432	963

608.

786	436
752	441
999	619
441	752
619	786
436	999

609.

156	156
441	294
294	441
715	459
987	715
459	987

610.

536	126
762	240
445	393
240	445
126	536
393	762

611.

702	117
891	224
594	594
117	617
617	702
224	891

612.

203	196
436	203
196	436
881	551
759	759
551	881

613.

735	182
556	204
541	541
204	556
926	735
182	926

614.

556	209
398	398
420	420
531	531
209	556
780	780

Convert.

615. $63\frac{1}{4}\% =$ 0.632

616. $88\% =$ 0.88

617. $31\frac{2}{5}\% =$ 0.314

618. $11\frac{5}{10}\% =$ 0.115

619. $68\frac{3}{4}\% =$ 0.688

620. $18\frac{4}{5}\% =$ 0.188

621. $97\frac{7}{10}\% =$ 0.977

622. $79\frac{1}{2}\% =$ 0.795

623. $89\frac{1}{2}\% =$ 0.895

624. $38\frac{3}{5}\% =$ 0.386

Convert.

625. 0.248 = $24\frac{4}{5}\%$

626. 0.69 = 69 %

627. 0.335 = $33\frac{1}{2}\%$

628. 0.825 = $82\frac{1}{2}\%$

629. 0.393 = $39\frac{3}{10}\%$

630. 0.932 = $93\frac{1}{4}\%$

631. 0.33 = 33 %

632. 0.786 = $78\frac{6}{10}\%$

633. 0.08 = 8 %

634. 0.212 = $21\frac{1}{5}\%$

Convert.

635. $19\frac{1}{4}\%$ = 0.192

636. $64\frac{3}{10}\%$ = 0.643

637. 0.992 = $99\frac{1}{4}\%$

638. 15 % = 0.15

639. 0.934 = $93\frac{4}{10}\%$

640. 0.325 = $32\frac{1}{2}\%$

641. $32\frac{2}{5}\%$ = 0.324

642. $7\frac{2}{4}\%$ = 0.075

643. $81\frac{1}{10}\%$ = 0.811

644. $88\frac{4}{5}\%$ = 0.888

Calculate the given percent of each value.

645. 10% of 308 = 30.8

646. 10% of 389 = 38.9

647. 10% of 42 = 4.2

648. 10% of 2 = 0.2

649. 10% of 133 = 13.3

650. 10% of 769 = 76.9

651. 10% of 94 = 9.4

652. 10% of 81 = 8.1

653. 10% of 391 = 39.1

654. 10% of 33 = 3.3

Calculate the given percent of each value.

655. 90% of 711 = 639.9

656. 73% of 2 = 1.46

657. 50% of 2 = 1

658. 86% of 58 = 49.88

659. 99% of 6 = 5.94

660. 85% of 92 = 78.2

661. 14% of 2 = 0.28

662. 57% of 3 = 1.71

663. 92% of 59 = 54.28

664. 22% of 42 = 9.24

Provide the conversions for each ratio.

665.

	Ratio	Fraction	Percent	Decimal
a.	1:3	1/4	25%	0.25
b.	3:5	3/8	37.5%	0.375
c.	7:7	7/14	50%	0.5
d.	5:8	5/13	38.5%	0.385
e.	8:10	8/18	44.4%	0.444
f.	8:9	8/17	47.1%	0.471
g.	6:10	6/16	37.5%	0.375
h.	1:6	1/7	14.3%	0.143
i.	1:10	1/11	9.1%	0.091
j.	2:3	2/5	40%	0.4

666.

	Ratio	Fraction	Percent	Decimal
a.	3:7	3/10	30%	0.3
b.	2:4	2/6	33.3%	0.333
c.	1:7	1/8	12.5%	0.125
d.	8:8	8/16	50%	0.5
e.	1:3	1/4	25%	0.25
f.	1:4	1/5	20%	0.2
g.	1:6	1/7	14.3%	0.143
h.	3:6	3/9	33.3%	0.333
i.	3:5	3/8	37.5%	0.375
j.	4:5	4/9	44.4%	0.444

Complete the table.

667.

+	6	9	1	3	2
8	14	17	9	11	10
5	11	14	6	8	7
6	12	15	7	9	8
4	10	13	5	7	6
3	9	12	4	6	5

668.

+	1	5	7	3	4
4	5	9	11	7	8
6	7	11	13	9	10
3	4	8	10	6	7
2	3	7	9	5	6
8	9	13	15	11	12

Complete the table.

669.

÷	80	59	92	85	54
7	11 r3	8 r3	13 r1	12 r1	7 r5
5	16	11 r4	18 r2	17	10 r4
6	13 r2	9 r5	15 r2	14 r1	9
4	20	14 r3	23	21 r1	13 r2
2	40	29 r1	46	42 r1	27

670.

÷	59	35	28	45	77
8	7 r3	4 r3	3 r4	5 r5	9 r5
7	8 r3	5	4	6 r3	11
4	14 r3	8 r3	7	11 r1	19 r1
3	19 r2	11 r2	9 r1	15	25 r2
2	29 r1	17 r1	14	22 r1	38 r1

Complete the table.

671.

×	2	4	11	8	5
3	6	12	33	24	15
7	14	28	77	56	35
2	4	8	22	16	10
10	20	40	110	80	50
4	8	16	44	32	20

672.

×	6	2	3	11	4
4	24	8	12	44	16
9	54	18	27	99	36
2	12	4	6	22	8
12	72	24	36	132	48
5	30	10	15	55	20

Complete the table.

673.

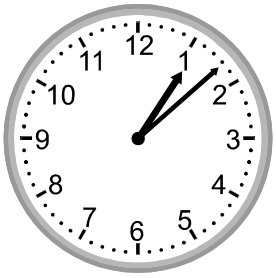
−	16	13	15	17	10
2	14	11	13	15	8
6	10	7	9	11	4
9	7	4	6	8	1
7	9	6	8	10	3
8	8	5	7	9	2

674.

−	16	14	17	15	18
8	8	6	9	7	10
2	14	12	15	13	16
9	7	5	8	6	9
4	12	10	13	11	14
3	13	11	14	12	15

Show the time for each clock.

675.



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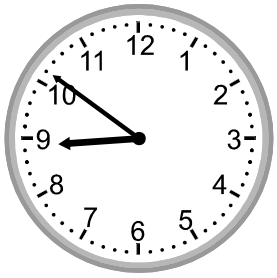

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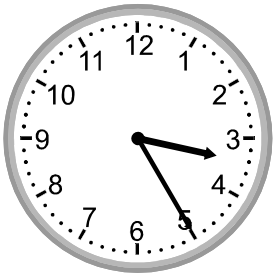

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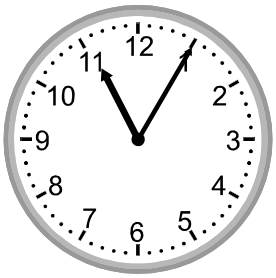
678. 

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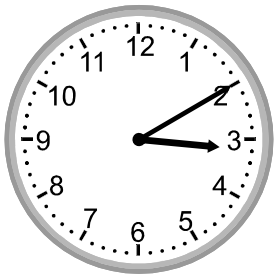
679. 

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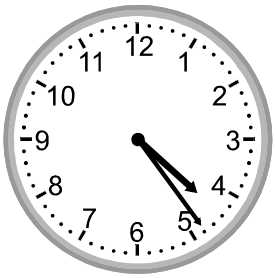
680. 

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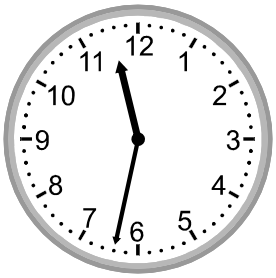
681. 

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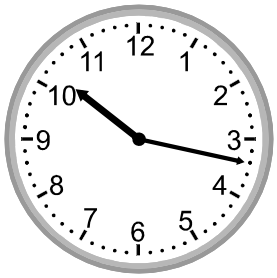
682. 

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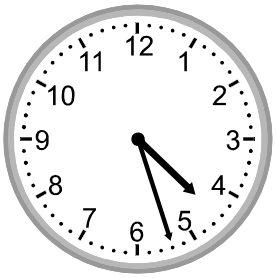
683. 

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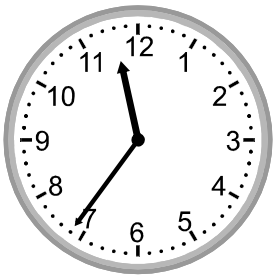
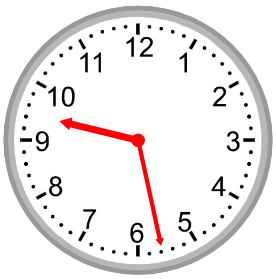
684. 

11:36

Show the time for each clock.

685. 

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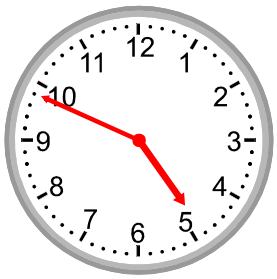
686. 

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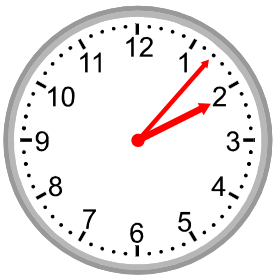
687. 

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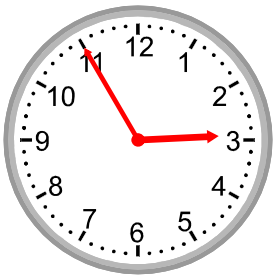
688. 

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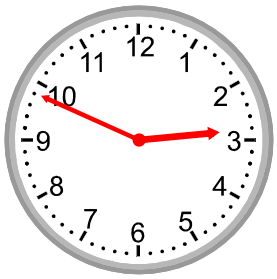
689. 

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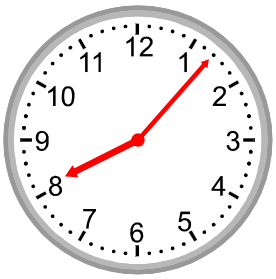
690. 

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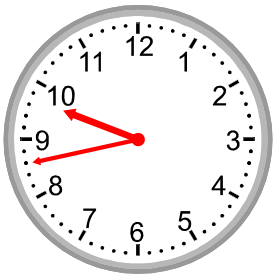
691. 

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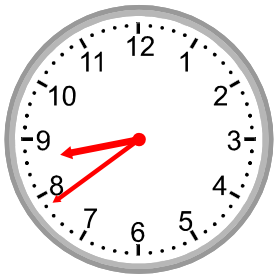
692. 

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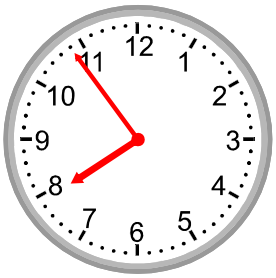
693. 

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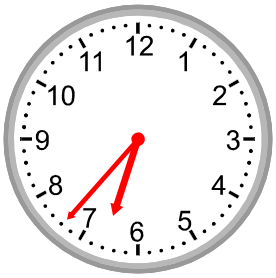
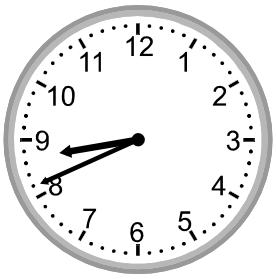
694. 

6:37

Show the time for each clock.

695. 

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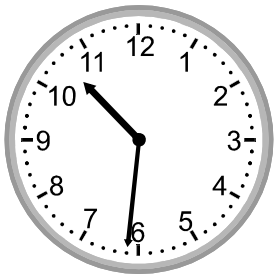
696. 

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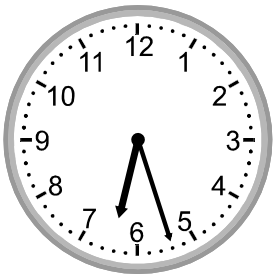
697. 

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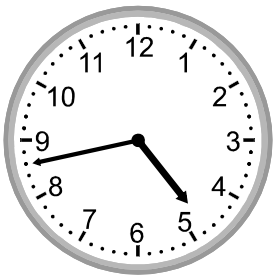
698. 

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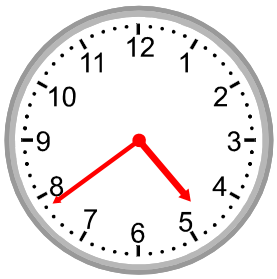
699. 

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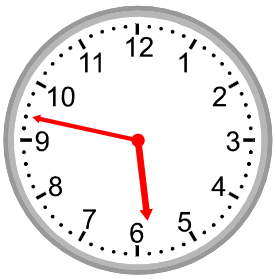
700. 

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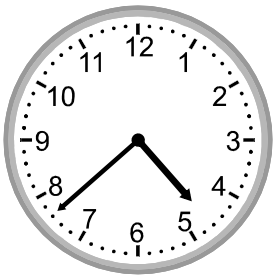
701. 

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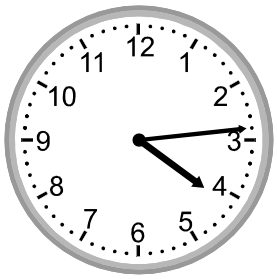
702. 

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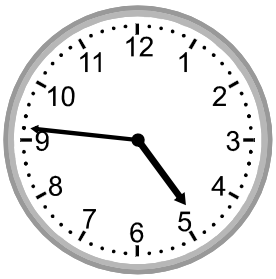
703. 

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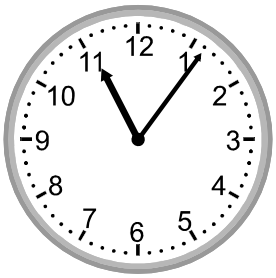
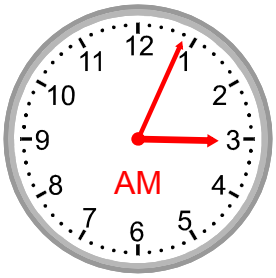


11:06

Show the time for each clock.

705.



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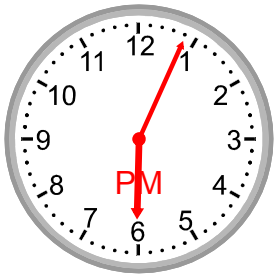

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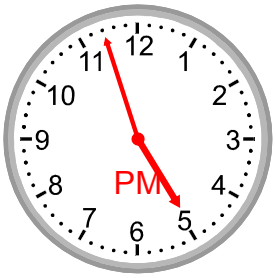

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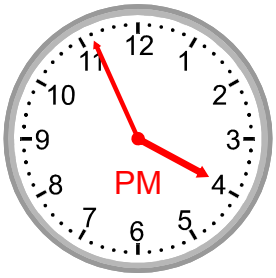

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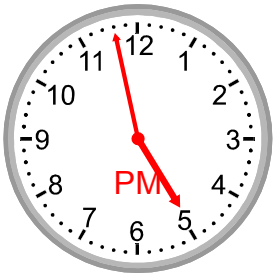

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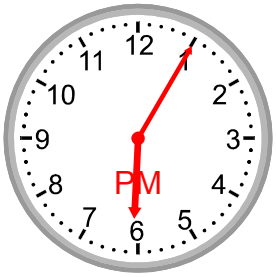

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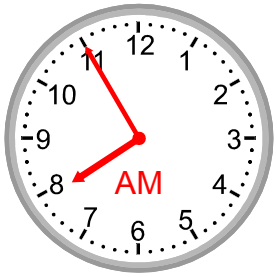

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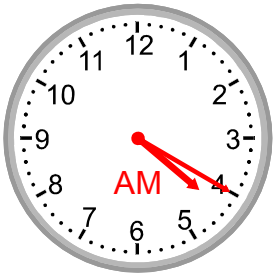

04:20

714.

01:38

Show the time for each clock.

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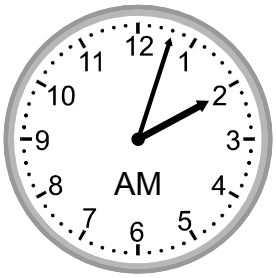

02:03

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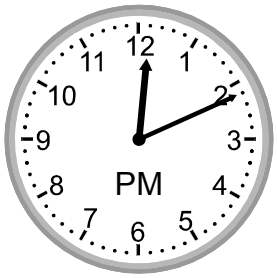
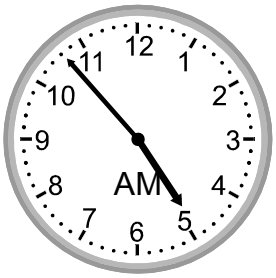


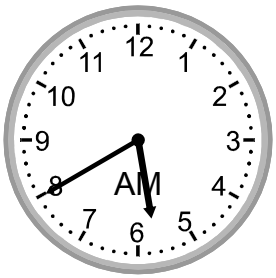
12:11

717.



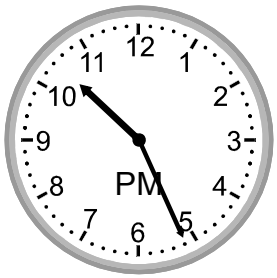
04:53

718.



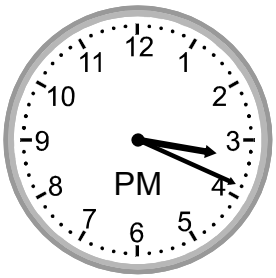
05:40

719.



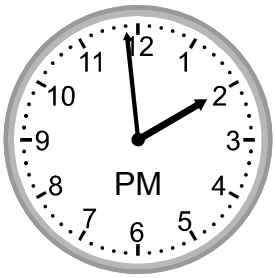
22:26

720.



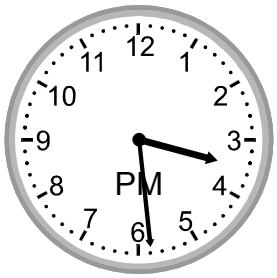
15:19

721.



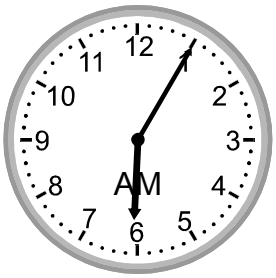
13:59

722.



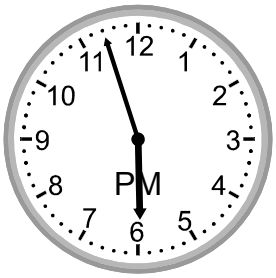
15:29

723.



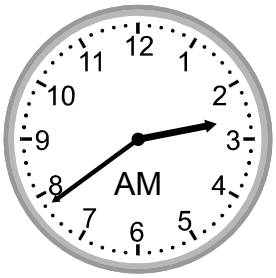
06:05

724.

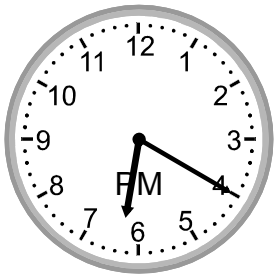


17:57

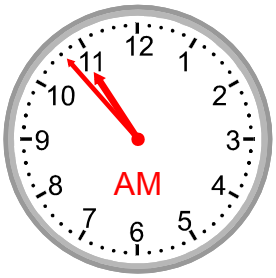
Show the time for each clock.

725. 

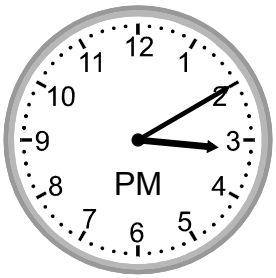
02:39

726. 

18:20

727. 

10:53

728. 

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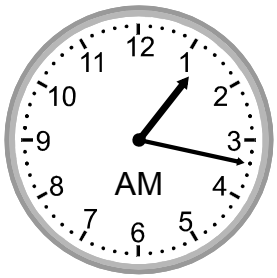
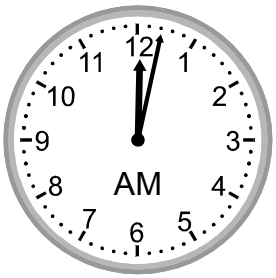
729. 

01:17

730. 

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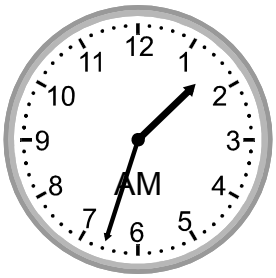
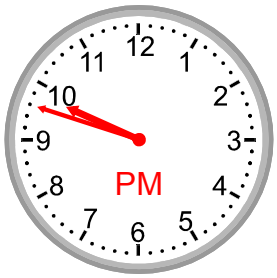
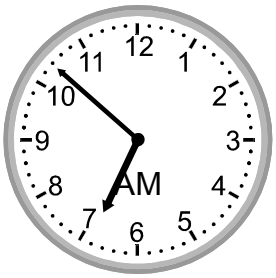
731. 

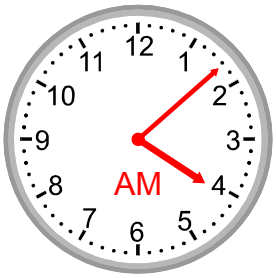
01:33

732. 

21:48

733. 

06:52

734. 

04:08

Convert the given measures of time to alternate measures of time.

735. 93 min = 5,580 sec

736. 84 hr = 5,040 min

737. 36 hr = 2,160 min

738. 83 min = 4,980 sec

739. 22 min = 1,320 sec

740. 93 hr = 5,580 min

741. 62 min = 3,720 sec

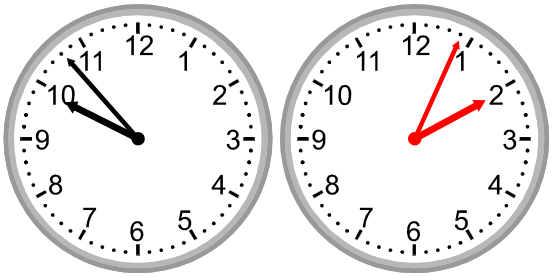
742. 77 hr = 4,620 min

743. 62 hr = 3,720 min

744. 29 hr = 1,740 min

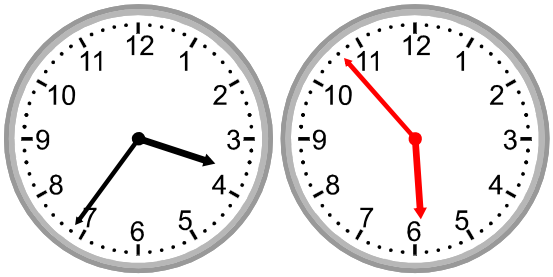
Draw the clock hands to show the passage of time.

745.



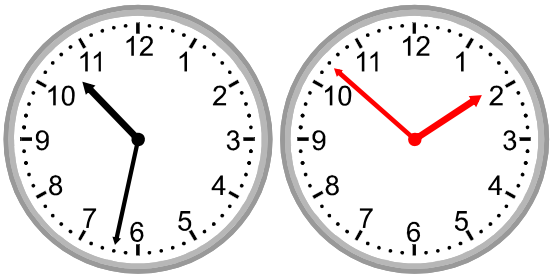
What time will it be in 4 hours 11 minutes?

746.



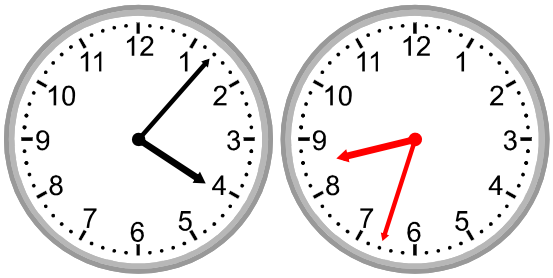
What time will it be in 2 hours 17 minutes?

747.



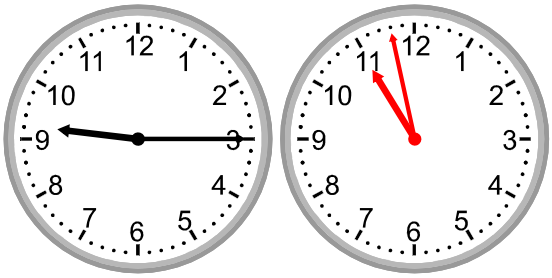
What time will it be in 3 hours 19 minutes?

748.



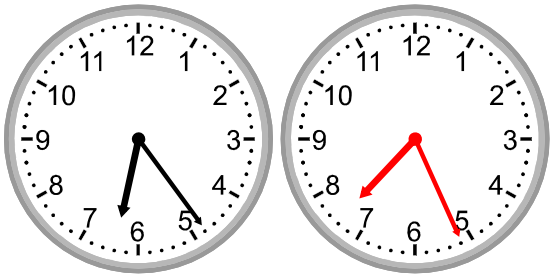
What time will it be in 4 hours 26 minutes?

749.



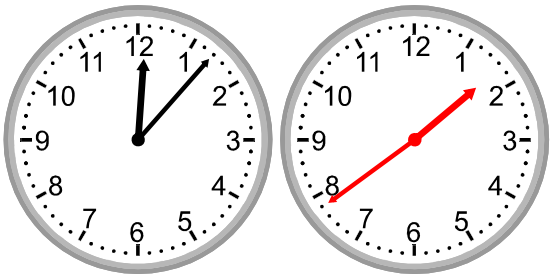
What time will it be in 1 hour 42 minutes?

750.



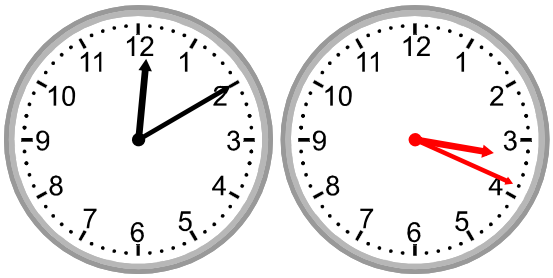
What time will it be in 1 hour 1 minute?

751.



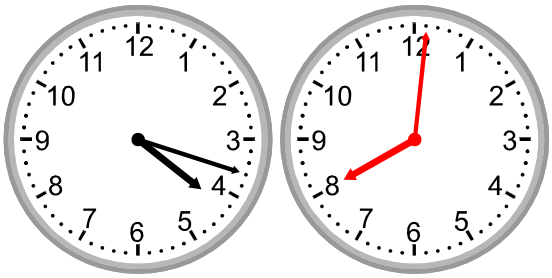
What time will it be in 1 hour 31 minutes?

752.



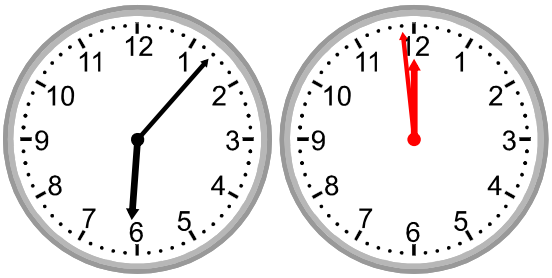
What time will it be in 3 hours 9 minutes?

753.



What time will it be in 3 hours 43 minutes?

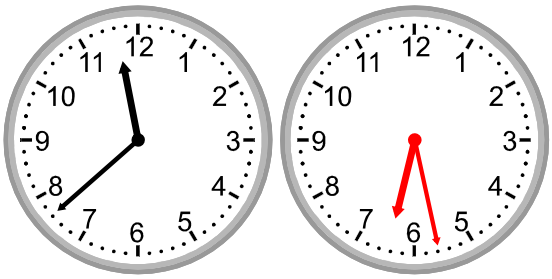
754.



What time will it be in 5 hours 51 minutes?

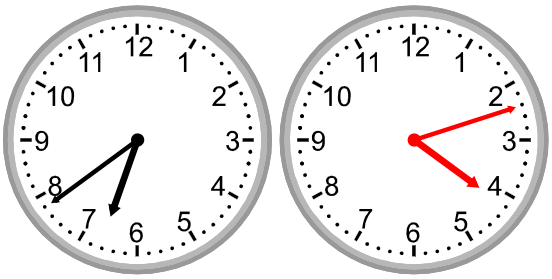
Draw the clock hands to show the passage of time.

755.



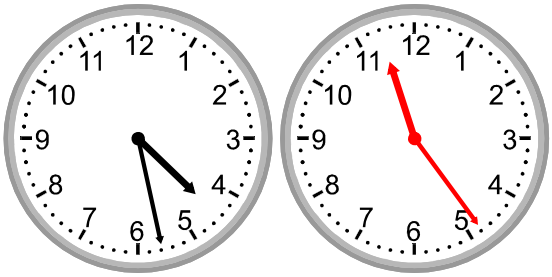
What time was it 5 hours 10 minutes ago?

756.



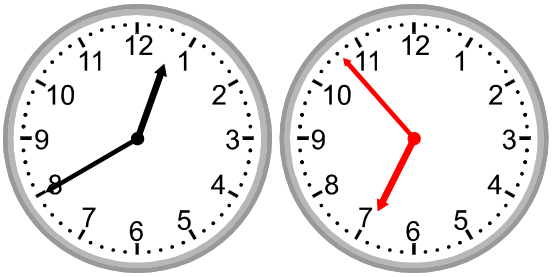
What time was it 2 hours 26 minutes ago?

757.



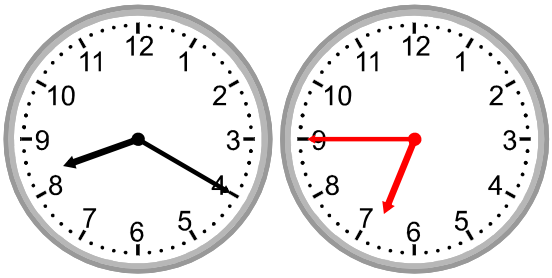
What time was it 5 hours 3 minutes ago?

758.



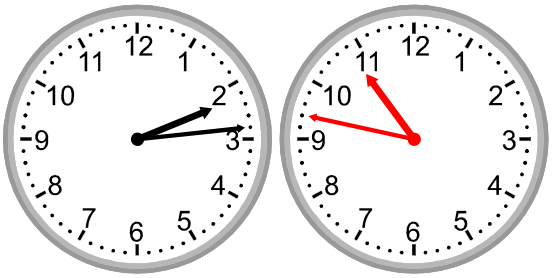
What time was it 5 hours 46 minutes ago?

759.

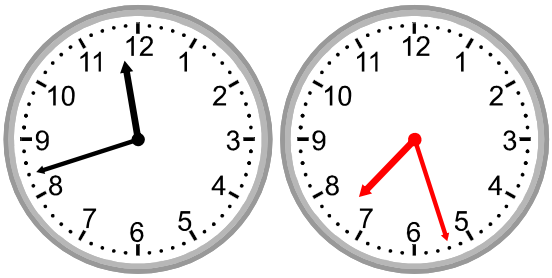


What time was it 1 hour 35 minutes ago?

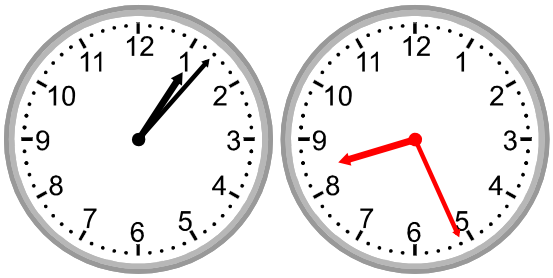
760.



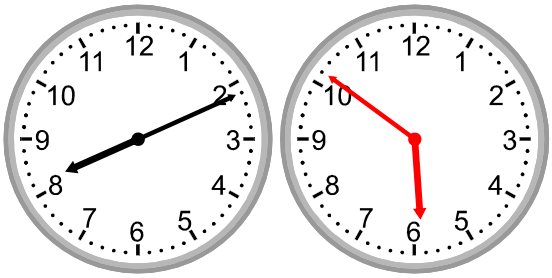
What time was it 3 hours 26 minutes ago?

761. 

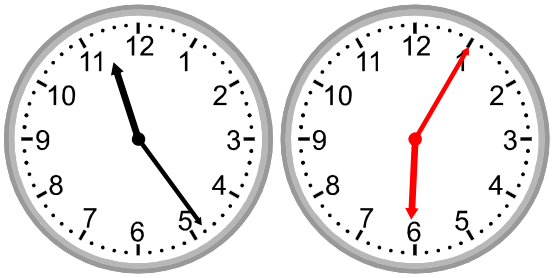
What time was it 4 hours 15 minutes ago?

762. 

What time was it 4 hours 40 minutes ago?

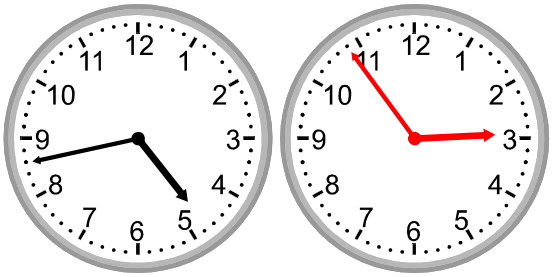
763. 

What time was it 2 hours 19 minutes ago?

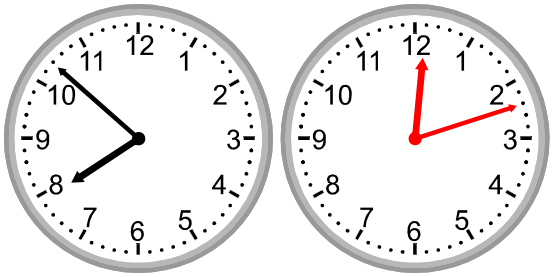
764. 

What time was it 5 hours 19 minutes ago?

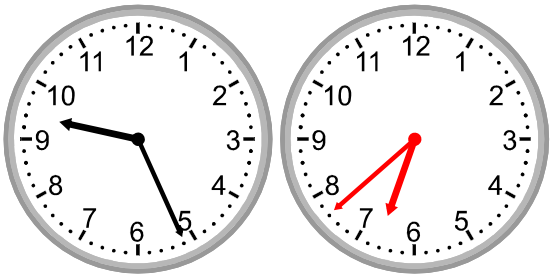
Draw the clock hands to show the passage of time.

765. 

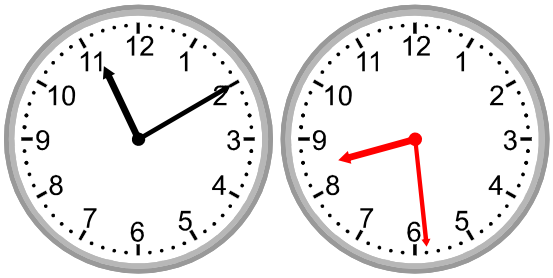
What time was it 1 hour 49 minutes ago?

766. 

What time will it be in 4 hours 19 minutes?

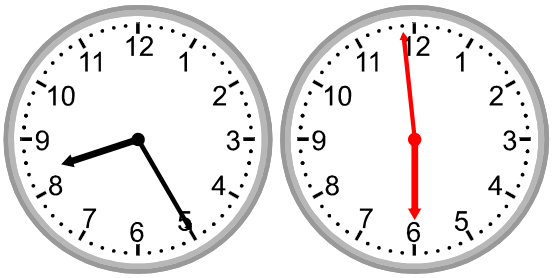
767. 

What time was it 2 hours 48 minutes ago?

768. 

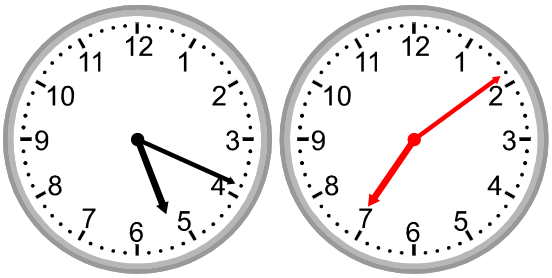
What time was it 2 hours 40 minutes ago?

769.



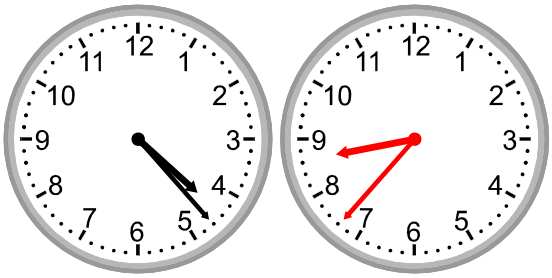
What time was it 2 hours 26 minutes ago?

770.



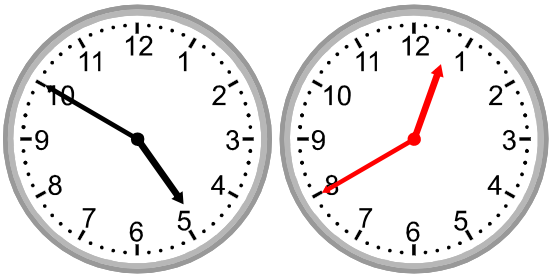
What time will it be in 1 hour 50 minutes?

771.



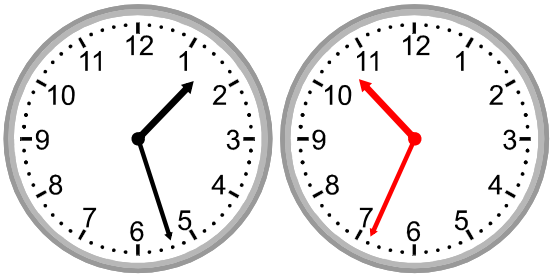
What time will it be in 4 hours 13 minutes?

772.



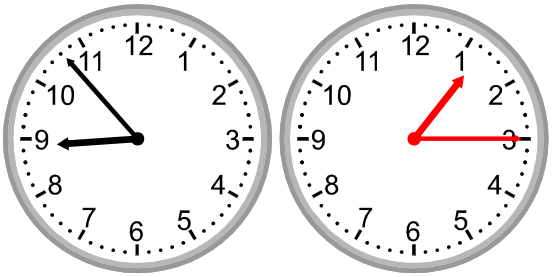
What time was it 4 hours 10 minutes ago?

773.



What time was it 2 hours 53 minutes ago?

774.



What time will it be in 4 hours 21 minutes?

775. In the space below sketch a map from school to your home. It does not need to be to scale.

Obviously there is no single correct answer to this task.
Discuss this map with your teacher and ask for constructive criticism.

776. In the space below sketch a plan of the school. It does not need to be to scale.

Obviously there is no single correct answer to this task.
Discuss this plan with your teacher and ask for constructive criticism.

Chance

777. What is the probability (chance) of tossing a coin and it showing heads?

½ or 50% or 0.5

778. What is the probability (chance) of rolling a die and it showing a 5?

1/6 or 17% or 0.17

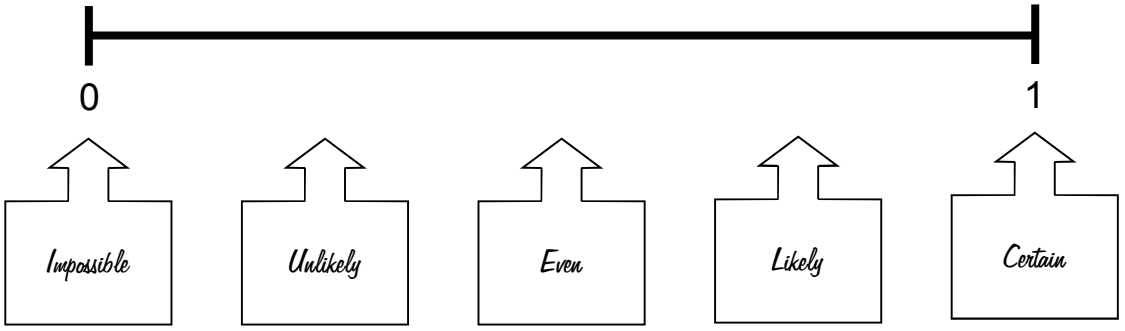
779. A hat contains 5 red and 4 green discs. What is the probability (chance) of drawing a green disc?

4/9 or 44% or 0.44

780. A standard deck of cards contains 52 cards. What is the probability of randomly drawing an Ace Of Spades from the deck?

1/52 or 1.9% or 0.019

781. On the number line below, show the location of probabilities which can be described as; certain, unlikely, likely, impossible and even.



Rates Of Application

782. The walls of a room are to be painted with two coats of paint. The area of the walls is 25m^2. Correct application of the paint requires 100mL of paint per square metre. Calculate how many litres of paint will be required.

5 litres

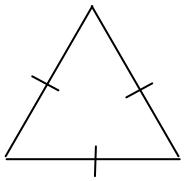
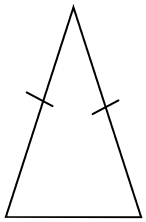
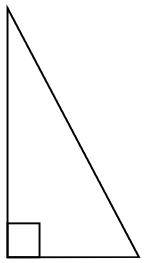
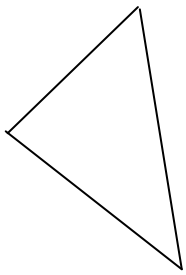
783. A front lawn has an area of 225m^2. A pesticide to remove weeds is sprayed onto the lawn at a rate of 50mL per square metre. How much pesticide is required to complete the task?

1.25 litres

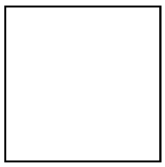
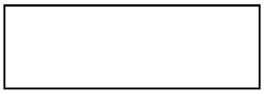
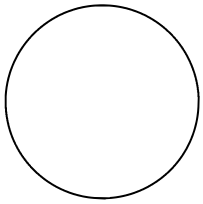
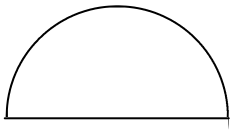
784. It's spring time and the lawn is to be fertilised with a powdered food for grass. The fertiliser is to be spread at a rate of 50g per square metre. The bags of fertiliser are 10kg. How many square metres of lawn will be fertilised with 2 bags of lawn food?

400 square metres

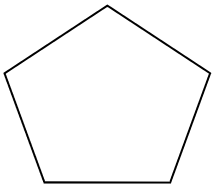
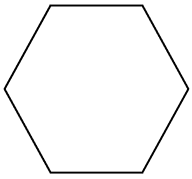
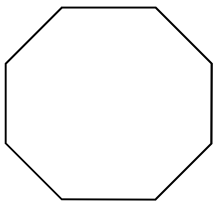
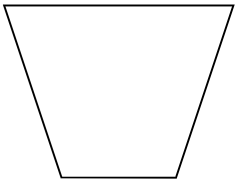
785. Draw the named shapes in the boxes below.

Equilateral Triangle	Isosceles Triangle	Right Triangle	Scalene Triangle
			

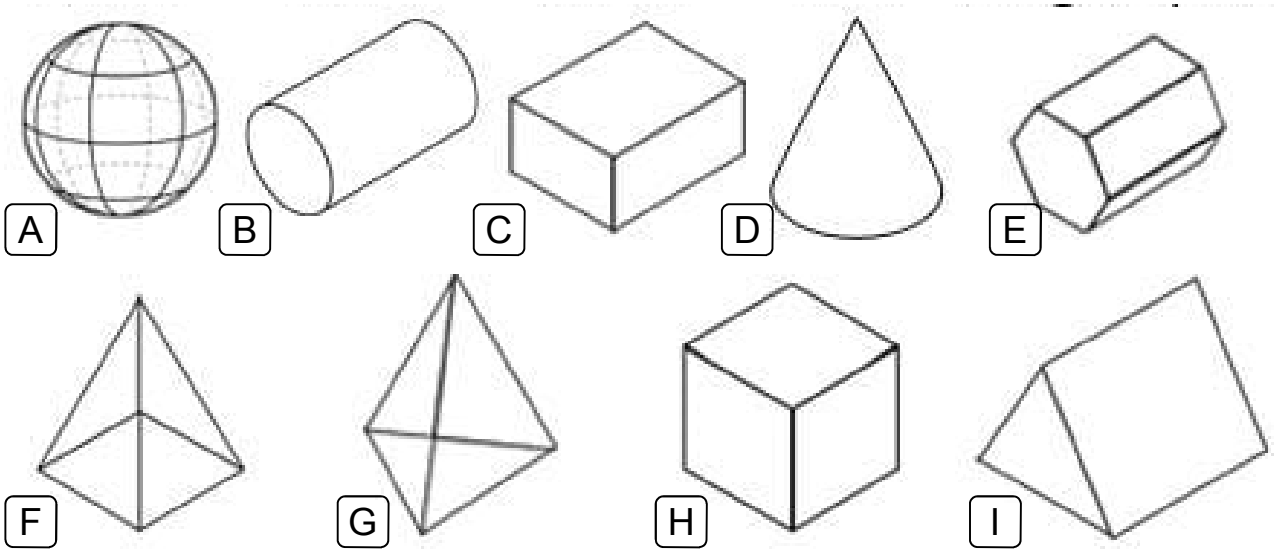
786. Draw the named shapes in the boxes below.

Square	Rectangle	Circle	Semi-Circle
			

787. Draw the named shapes in the boxes below.

Pentagon	Hexagon	Octagon	Trapezium
			

788. Name the solids shown below.



A) sphere

B) cylinder

C) rectangular prism

D) cone

E) hexagonal prism

F) square pyramid

G) triangular pyramid

H) cube

I) triangular prism

789. Below is a table with the ingredients for a recipe which is able to feed 4 people. The other columns are blank. Fill in the table to allow the recipe to feed the number given.

Ingredients	4 people	2 people	3 people	5 people	6 people
Spiral Pasta	500g	250g	375g	625g	750g
Minced Meat (beef or chicken)	400g	200g	300g	500g	600g
Pasta Sauce	350mL	175mL	263mL	438mL	525mL
Parmesan Cheese	150g	75g	113g	188g	225g
Olive Oil	2 tbsp*	1tbsp	1.5tbsp	2.5tbsp	3tbspn

* tbsp = table spoon.

790. Below is a sign showing the costs of parking in the Toowong Village & Tower parking station. Read the sign carefully and answer the questions shown to the right of the sign.

a) What is the cost of parking for 3 hours?

$3.00

b) How much does a staff member pay for 7 hours of parking?

$4.00

c) A person parks from 8pm until 7am and pays by credit card. What is the total cost?

$26.52
Hint:
{$6.00 + $20.00 + 2% or 102% of $26.00}

791. Below is a map of Southern Florida. Use the map to answer the questions.

a) What is the name of the northernmost city?

Sanford

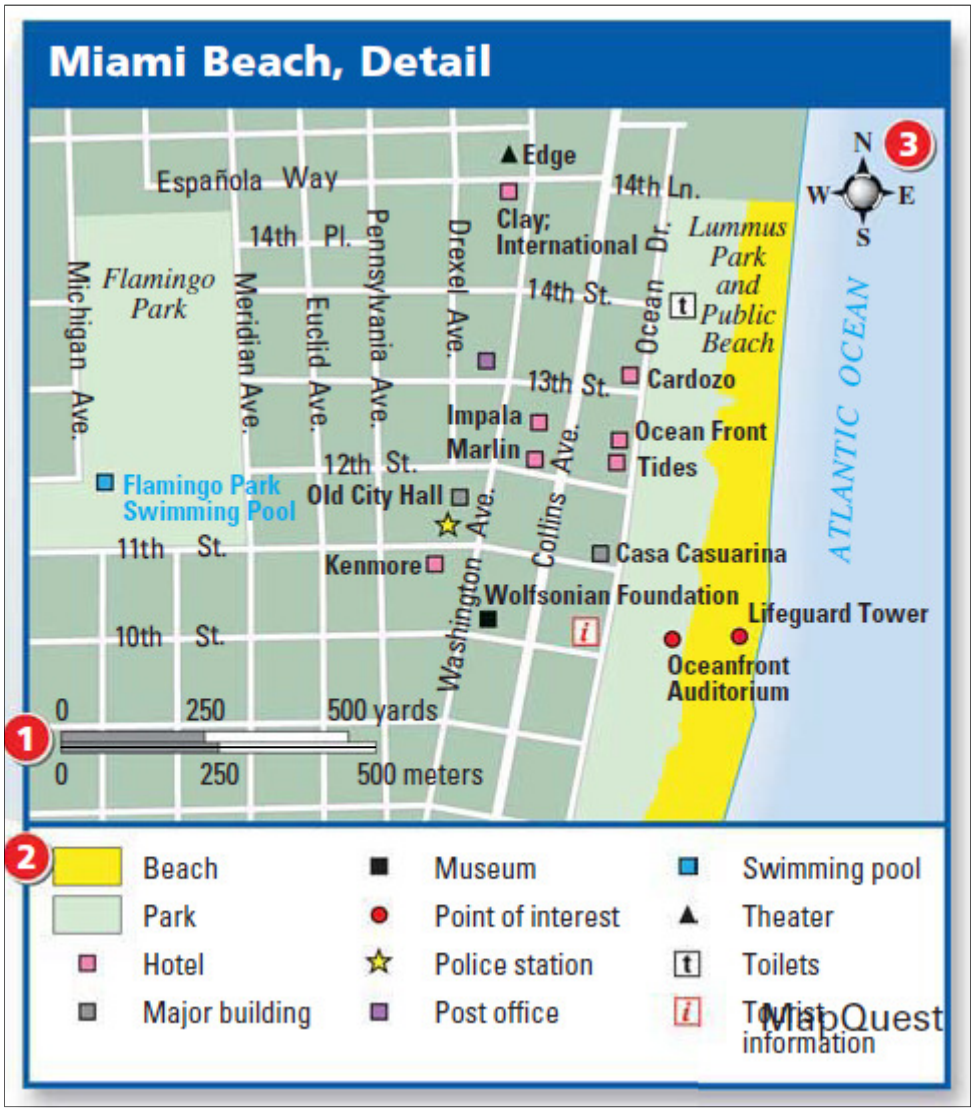
b) What is the name of the westernmost city?

Clearwater

c) Use the scale on the map to estimate the distance between Key West and Naples in miles and kilometres.

173km (+/- 5km), 108miles (+/- 3miles)

792. Below is a detailed map of Miami Beach. Use the map to answer the questions.



a) In what direction does 11th street run?

East-West

b) What is the direction of the police station from the Lifeguard tower?

West North West or WNW

c) Which is closer to the toilets, the police station or The Edge theater?

The Edge Theater

d) Using the scale, how far is the Kenmore Hotel from the Cardozo Hotel?

430m +/- 5m