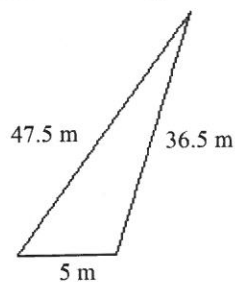
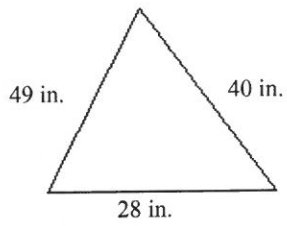


Study Guide Final

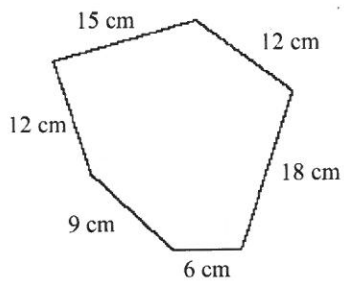
1. Write each ratio in two other ways: 18 : 72.
2. Write each ratio in two other ways: 36 : 45.
3. Write each ratio in two other ways: 6 : 42.
4. Write each ratio in two other ways: 16 : 20.
5. Write each ratio in two other ways: 24 : 40.
6. Write each ratio in two other ways: 24 : 56.
7. Write each ratio in two other ways: 9 : 63.
8. Write each ratio in two other ways: 15 : 25.
9. Write each ratio in two other ways: 4 : 28.
10. Write each ratio in two other ways: 7 : 63.
11. Find the unit price of 48 pencils for \$1.44.
12. Find the unit price of 42 pencils for \$1.68.
13. Find the unit price of 42 pens for \$4.62.
14. Find the unit price of 24 pencils for \$1.92.
15. Find the unit price of 30 pens for \$4.20.
16. Find the unit price of 48 pencils for \$1.92.
17. Find the unit price of 36 pens for \$3.96.
18. Find the unit price of 48 pens for \$8.64.
19. Find the unit price of 30 pens for \$4.50.
20. Find the unit price of 48 pens for \$6.72.
21. Find the perimeter of the figure.



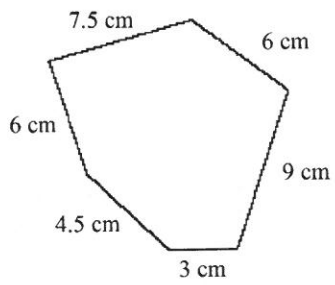
22. Find the perimeter of the figure.



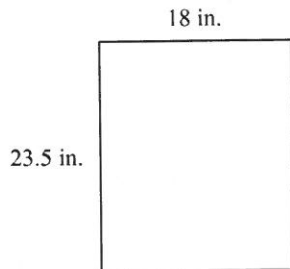
23. Find the perimeter of the figure.



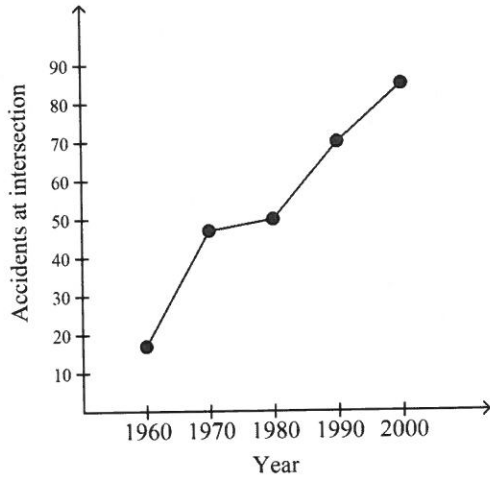
24. Find the perimeter of the figure.



25. Find the perimeter of the figure.

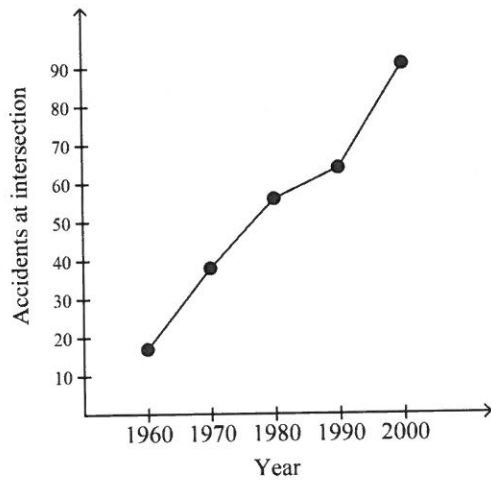


26. Every 10 years, the police report the number of traffic accidents that occur at a particular intersection during the year. The graph below represents the data they have collected.



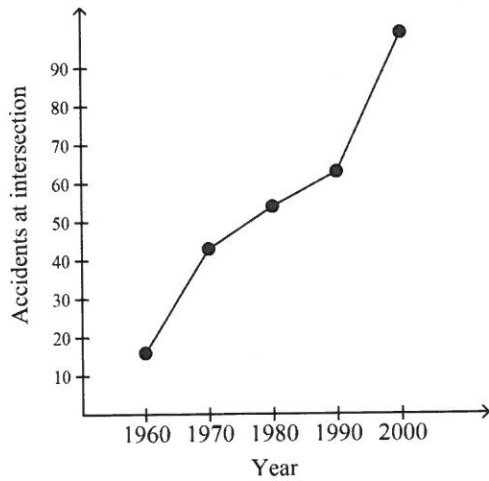
Based on this graph, what is the best estimate for the number of accidents that occurred at the intersection in the year 1965?

27. Every 10 years, the police report the number of traffic accidents that occur at a particular intersection during the year. The graph below represents the data they have collected.



Based on this graph, what is the best estimate for the number of accidents that occurred at the intersection in the year 1995?

28. Every 10 years, the police report the number of traffic accidents that occur at a particular intersection during the year. The graph below represents the data they have collected.



Based on this graph, what is the best estimate for the number of accidents that occurred at the intersection in the year 1985?

29. A yacht club has several sailboats docked at the club. The height of each mast is listed in the table below.

Name of Boat	Mast Height
<i>Sail One</i>	23
<i>Boats Away</i>	47
<i>Winds Wandering</i>	44
<i>Blue Seas</i>	26
<i>Pirate Pete</i>	38
<i>Water Brake</i>	32
<i>Surf and Sail</i>	33
<i>Rub-a-dub-tub</i>	45
<i>No Storms</i>	33
<i>Fun Fun Fun</i>	38
<i>Water Slide</i>	22

Make a stem-and-leaf plot based on this table.

30. A yacht club has several sailboats docked at the club. The height of each mast is listed in the table below.

Name of Boat	Mast Height
<i>Sail One</i>	23
<i>Boats Away</i>	45
<i>Winds Wandering</i>	47
<i>Blue Seas</i>	28
<i>Pirate Pete</i>	34
<i>Water Brake</i>	32
<i>Surf and Sail</i>	35
<i>Rub-a-dub-tub</i>	48
<i>No Storms</i>	35
<i>Fun Fun Fun</i>	34
<i>Water Slide</i>	29

Make a stem-and-leaf plot based on this table.

31. Consider the following list:

81, 65, 42, 89, 24, 39, 25, 49, 88, 83, 36, 36, 22, 31, 31, 48, 86, 88

Make a stem-and-leaf plot based on this list.

32. Consider the following list:

86, 68, 47, 86, 23, 36, 25, 48, 84, 86, 37, 37, 28, 34, 34, 45, 89, 87

Make a stem-and-leaf plot based on this list.

33. Consider the following list:

82, 69, 47, 89, 21, 39, 26, 43, 81, 82, 37, 37, 23, 38, 38, 44, 84, 87

Make a stem-and-leaf plot based on this list.

34. A bakery tracks the number of people it employs. The results are recorded every ten years, and the results of the survey are shown in the table below. Make a bar graph based on the table.

Year	Workers at Bakery
1960	14
1970	26
1980	33
1990	39

35. Barbara collects autographed baseballs. The table below shows the number of autographed baseballs she owned in certain years. Draw a line graph to represent the data in the table.

Year	Autographed Baseballs
1994	1
1996	5
1998	6
2000	12

Find each sum.

36) $170 + 829.7 + 1.975 + 269.2$

38) $961 + 214.5 + 65.56 + 145.8$

40) $140.1 + 13.4 + 220.7 + 957.6$

42) $13.1 + 8.32 + 998.5 + 745.8$

44) $35.6 + 344.1 + 576.5 + 201.3$

46) $143.28 + 561.6 + 540.3 + 592.7$

48) $42.9 + 88.9 + 534 + 1.82$

50) $267.2 + 754.3 + 175.37 + 694.8$

52) $162.6 + 84.9 + 791.3 + 786.8$

54) $87.9 + 18.634 + 107.95 + 625.8$

56) $5\frac{5}{12} + \frac{7}{5}$

58) $2\frac{1}{16} + 1\frac{3}{7}$

60) $\frac{3}{2} + \frac{3}{5}$

62) $4\frac{7}{10} + \frac{8}{5}$

64) $\frac{5}{12} + 5\frac{4}{9}$

66) $\frac{11}{13} + 7\frac{1}{3}$

68) $\frac{7}{8} + 1\frac{1}{3}$

70) $3\frac{5}{7} + \frac{1}{7}$

72) $1 + 4\frac{2}{3}$

74) $1\frac{15}{16} + \frac{7}{9}$

76) $-29 + 49$

78) $-65 + 25$

80) $-36 + 64$

82) $89 + 13$

84) $-85 + 65$

86) $-6 + -97$

88) $-32 + -46$

90) $-46 + -16$

92) $-39 + -31$

94) $-10 + 9$

96) $-26 + -56$

98) $-62 + -86$

100) $-52 + -6$

37) $192.4 + 624.7 + 319.3 + 835.6$

39) $117.7 + 218.5 + 926.7 + 128.3$

41) $244.7 + 959.4 + 141.3 + 16.439$

43) $214.9 + 419.6 + 613.3 + 664.8$

45) $172.88 + 347.8 + 162.7 + 618.2$

47) $32.192 + 592.9 + 851.6 + 243.7$

49) $65.4 + 883.9 + 104.5 + 250.2$

51) $908.7 + 879.9 + 85.3 + 182.25$

53) $983.4 + 9.4 + 19.006 + 22.14$

55) $110.3 + 473.8 + 969.2 + 185.1$

57) $16 + \frac{2}{7}$

59) $\frac{1}{6} + \frac{1}{3}$

61) $\frac{4}{7} + 5\frac{1}{3}$

63) $\frac{1}{9} + \frac{3}{7}$

65) $8\frac{5}{6} + 3\frac{1}{3}$

67) $\frac{5}{3} + 4\frac{1}{10}$

69) $\frac{17}{13} + \frac{1}{2}$

71) $6\frac{4}{5} + 5\frac{1}{3}$

73) $\frac{4}{13} + \frac{5}{4}$

75) $\frac{2}{7} + 8\frac{9}{10}$

77) $-78 + 50$

79) $-23 + 34$

81) $3 + -17$

83) $-3 + -6$

85) $-55 + -96$

87) $-88 + -30$

89) $-13 + -87$

91) $-16 + 24$

93) $-91 + 76$

95) $-49 + 90$

97) $-68 + -71$

99) $-59 + 10$

101) $-19 + -71$

102) $-81 + -45$

104) $-42 + 75$

Find each difference.

106) $467.2 - 335.1$

108) $822.9 - 641.5$

110) $979.7 - 270.74$

112) $211.2 - 55.6$

114) $555.6 - 326.77$

116) $921.5 - 327.9$

118) $748.2 - 235.4$

120) $218.6 - 11.8$

122) $896.8 - 460.7$

124) $957.3 - 850.6$

126) $\frac{3}{4} - \frac{3}{8}$

128) $1 - \frac{1}{4}$

130) $\frac{25}{14} - \frac{12}{13}$

132) $\frac{10}{9} - \frac{3}{4}$

134) $1 - \frac{13}{15}$

136) $4\frac{5}{7} - 1\frac{2}{3}$

138) $1\frac{1}{6} - 1\frac{1}{6}$

140) $2\frac{3}{4} - \frac{1}{3}$

142) $4\frac{3}{5} - 1\frac{1}{2}$

144) $8 - 2\frac{2}{5}$

146) $-14 - -11$

148) $2 - -24$

150) $-24 - 2$

152) $-17 - 2$

154) $-6 - 14$

156) $25 - -11$

158) $-21 - 14$

160) $3 - 2$

162) $-19 - -11$

164) $14 - -20$

166) $-8 - -11$

168) $15 - 2$

170) $13 - -11$

103) $-75 + -55$

105) $-72 + 35$

107) $905 - 167.6$

109) $768.8 - 513.3$

111) $949.9 - 105.8$

113) $54.4 - 51.6$

115) $186.2 - 97.5$

117) $8 - 7.7$

119) $905.6 - 301.69$

121) $504.1 - 198.59$

123) $321.4 - 30.032$

125) $391.2 - 3.463$

127) $\frac{4}{3} - \frac{3}{4}$

129) $\frac{7}{4} - \frac{8}{5}$

131) $5 - \frac{11}{10}$

133) $\frac{7}{6} - \frac{1}{4}$

135) $\frac{14}{13} - \frac{2}{3}$

137) $2\frac{1}{4} - \frac{1}{5}$

139) $\frac{7}{8} - \frac{1}{2}$

141) $2\frac{3}{4} - \frac{1}{2}$

143) $4\frac{1}{3} - 3\frac{5}{8}$

145) $4\frac{1}{8} - 3\frac{1}{7}$

147) $24 - 14$

149) $12 - 14$

151) $-11 - 1$

153) $16 - -24$

155) $7 - -11$

157) $-3 - 2$

159) $19 - -11$

161) $-1 - -11$

163) $5 - 14$

165) $-4 - -24$

167) $-23 - -24$

169) $10 - 1$

171) $-16 - -24$

172) $-10 - -24$

174) $22 - 1$

Find each product.

176) $8.8 \cdot 39.5$

178) $8.5 \cdot 16.67$

180) $2 \cdot 36.3$

182) $35.9 \cdot 12.8$

184) $4.4 \cdot 17.5$

186) $6.3 \cdot 8.1$

188) $25 \cdot 12.9$

190) $2.2 \cdot 31.6$

192) $4.2 \cdot 22.2$

194) $49.9 \cdot 14.373$

196) $\frac{5}{11} \times \frac{7}{9}$

198) $4\frac{1}{9} \times 2$

200) $2\frac{7}{9} \times \frac{18}{13}$

202) $7\frac{1}{4} \times 1\frac{1}{8}$

204) $2\frac{1}{2} \times \frac{7}{10}$

206) $13 \times \frac{20}{13}$

208) $7\frac{5}{6} \times 5\frac{3}{8}$

210) $\frac{6}{5} \times \frac{1}{2}$

212) $\frac{4}{3} \times \frac{13}{8}$

214) $5\frac{3}{4} \times \frac{4}{3}$

216) $(2)(20)$

218) $(17)(-16)$

220) $(-16)(-12)$

222) $(12)(18)$

224) $(9)(12)$

226) $(19)(-19)$

228) $(9)(15)$

230) $(20)(-19)$

232) $(7)(14)$

234) $(19)(-16)$

236) $(6)(8)$

238) $(-4)(4)$

240) $(12)(12)$

173) $-13 - 15$

175) $9 - -24$

177) $27.2 \cdot 40.59$

179) $6.6 \cdot 3.5$

181) $13.1 \cdot 31.6$

183) $29.3 \cdot 34.8$

185) $10.7 \cdot 0.2$

187) $11 \cdot 19.79$

189) $31.5 \cdot 41$

191) $15.3 \cdot 17.5$

193) $38.1 \cdot 48.8$

195) $33.7 \cdot 26.9$

197) $16 \times \frac{12}{11}$

199) $\frac{3}{8} \times \frac{2}{9}$

201) $1\frac{2}{15} \times 4\frac{2}{3}$

203) $\frac{3}{2} \times \frac{3}{4}$

205) $8 \times \frac{5}{8}$

207) $8\frac{1}{14} \times \frac{1}{8}$

209) $\frac{5}{8} \times \frac{29}{16}$

211) $4\frac{1}{10} \times 2$

213) $5\frac{1}{2} \times \frac{16}{15}$

215) $6\frac{3}{10} \times \frac{13}{7}$

217) $(-9)(-9)$

219) $(-3)(4)$

221) $(5)(14)$

223) $(11)(12)$

225) $(16)(18)$

227) $(-8)(-2)$

229) $(-14)(-6)$

231) $(-11)(-9)$

233) $(15)(-16)$

235) $(14)(18)$

237) $(-6)(-2)$

239) $(2)(8)$

241) $(4)(8)$

242) $(-12)(-6)$

244) $(-19)(-19)$

Find each quotient.

246) $74.2 \div 95.8$

248) $98.8 \div 39.3$

250) $19.17 \div 60.6$

252) $69.3 \div 43.7$

254) $32.3 \div 29.31$

256) $64.4 \div 65.3$

258) $44.7 \div 0.1$

260) $3.6 \div 91.3$

262) $34 \div 91.6$

264) $84.2 \div 70.11$

266) $\frac{7}{9} \div 3\frac{3}{11}$

268) $\frac{17}{11} \div 6\frac{1}{2}$

270) $3\frac{1}{2} \div 3\frac{1}{8}$

272) $6 \div 1\frac{1}{3}$

274) $\frac{19}{14} \div 7\frac{9}{13}$

276) $\frac{7}{9} \div 13$

278) $6\frac{1}{6} \div \frac{1}{2}$

280) $\frac{13}{8} \div 7\frac{5}{6}$

282) $1\frac{9}{14} \div \frac{5}{7}$

284) $5\frac{3}{5} \div \frac{2}{3}$

286) $\frac{-12}{3}$

288) $\frac{165}{11}$

290) $\frac{32}{-4}$

292) $\frac{168}{14}$

294) $\frac{66}{-11}$

296) $\frac{12}{6}$

243) $(-17)(-12)$

245) $(3)(2)$

247) $38.9 \div 43.5$

249) $16.04 \div 86.9$

251) $71.5 \div 99.71$

253) $29.1 \div 13$

255) $41 \div 21.08$

257) $94.9 \div 39$

259) $99.7 \div 17.5$

261) $1.8 \div 5.068$

263) $95.28 \div 69.8$

265) $92.14 \div 96$

267) $\frac{9}{5} \div \frac{9}{10}$

269) $2 \div 4\frac{1}{2}$

271) $\frac{4}{3} \div 6\frac{7}{10}$

273) $3\frac{5}{6} \div 2\frac{8}{11}$

275) $\frac{5}{3} \div \frac{1}{7}$

277) $\frac{27}{14} \div 4\frac{5}{12}$

279) $\frac{7}{6} \div 6\frac{4}{5}$

281) $\frac{8}{5} \div \frac{1}{15}$

283) $7\frac{4}{13} \div 2\frac{1}{8}$

285) $3\frac{3}{4} \div \frac{18}{13}$

287) $\frac{54}{-9}$

289) $\frac{168}{-14}$

291) $\frac{8}{4}$

293) $\frac{4}{-2}$

295) $\frac{323}{17}$

297) $\frac{234}{-13}$

298) $\frac{192}{16}$

300) $\frac{64}{8}$

302) $\frac{285}{-15}$

304) $\frac{72}{9}$

306) $\frac{361}{19}$

308) $\frac{288}{-18}$

310) $\frac{105}{-7}$

312) $\frac{-4}{-2}$

314) $\frac{40}{-5}$

299) $\frac{-4}{-1}$

301) $\frac{78}{13}$

303) $\frac{-50}{5}$

305) $\frac{144}{-12}$

307) $\frac{320}{-20}$

309) $\frac{323}{-17}$

311) $\frac{8}{-4}$

313) $\frac{56}{-7}$

315) $\frac{120}{-10}$

Evaluate each expression.

316) $6 + 12 \cdot 6 - 19 + 20$

318) $10 + 15 + 15 - (17 - 4)$

320) $((57 - 16 - 8) \cdot 3) \div 9$

322) $51 \div (6 - (13 - 10)) - 9$

324) $2(16 - 8) - (20 - 14)$

326) $12 \cdot 19 - 12 \cdot 24 \div 6$

328) $38 \div (4 - 3 + 17 - 16)$

330) $(2 + 19)(15 - 7) - 3$

332) $14 + 4 + 16 \div (5 - 1)$

334) $(11 - 5)(13 - 8) - 17$

317) $(5 - 3) \div (4 - 1 - 1)$

319) $(21 - 5) \div (6 + 15 - 17)$

321) $5 + 9(10 + 7) + 7$

323) $(45 \cdot 2) \div 9 + 15 - 6$

325) $(47 - 5) \div (14 - (9 - 2))$

327) $(4 + 2 + 35 - 5) \div 2$

329) $(54 + (27 - 18) \cdot 2) \div 4$

331) $(46 - 1) \div (18 + 11 - 14)$

333) $(13 - 1)(7 \cdot 2 - 5)$

335) $(5 + 1 + 32 - 2) \div 9$

Write each as an algebraic expression.

336) 2 increased by a number

338) the quotient of 42 and 7

340) the product of a number and 11 is equal to 31

342) a number increased by 11 is equal to 13

344) 8 more than 12

337) the product of 10 and a number

339) the difference of a number and 7

341) 9 less than q is 46

343) the sum of a number and 7 is 20

345) the difference of a number and 6 is equal to 45

Write each as a verbal expression.

346) $5 \cdot 6$

348) $p - 23$

350) $4 + 7$

352) $n - 12 = 33$

354) $\frac{50}{n}$

347) $n - 14 = 47$

349) $n + 9 = 19$

351) $\frac{n}{7} = 34$

353) $10 + 6$

355) $12 - 9$

Solve each addition equation.

356) $13 = m + 10$

358) $1 + r = 6$

360) $x + 20 = 40$

357) $22 = n + 7$

359) $36 = n + 9$

Solve each subtraction equation.

361) $1 = n - 3$

363) $a - 13 = 4$

365) $v - 12 = 14$

362) $8 = x - 4$

364) $n - 7 = 11$

Solve each Division equation.

366) $10 = \frac{p}{14}$

368) $11 = \frac{n}{12}$

370) $20 = \frac{v}{14}$

367) $\frac{x}{15} = 20$

369) $\frac{r}{3} = 7$

Solve each Multiplication equation.

371) $60 = 5b$

373) $10r = 170$

375) $49 = 7x$

372) $57 = 19n$

374) $13x = 260$

Find the GCF of each.

376) 30, 20

378) 24, 42

380) 9, 12

382) 48, 24, 40

384) 32, 22, 12

377) 16, 20

379) 30, 42

381) 11, 5, 44

383) 50, 35, 15

385) 20, 50, 40

Find the LCM of each.

386) 60, 36

388) 33, 22

390) 49, 14

392) 30, 24, 18

394) 20, 38, 11

387) 22, 18

389) 42, 18

391) 12, 24, 18

393) 20, 40, 30

395) 15, 25, 20

Write each as a fraction.

396) 3.9

398) 0.03

400) 2.25

402) 0.25

404) 0.5

406) 8%

408) 72%

410) 91%

412) 18%

414) 15%

416) 47%

418) 81%

397) 1.125

399) 4.75

401) 0.4

403) 7.333

405) 0.008

407) 25%

409) 10%

411) 68%

413) 1%

415) 60%

417) 50%

419) 38%

420) 12%

422) 44%

424) 56%

421) 40%

423) 89%

425) 90%

Write each as a decimal. Round to the thousandths place.

426) $1\frac{3}{10}$

428) $\frac{3}{4}$

430) $6\frac{3}{10}$

432) $\frac{2}{5}$

434) $\frac{1}{20}$

436) 2%

438) 72.8%

440) 26%

442) 43%

444) 0.7%

446) 13%

448) 54%

450) 0.3%

452) 0.5%

454) 48%

427) $\frac{1}{160}$

429) $\frac{3}{1000}$

431) $4\frac{3}{100}$

433) $\frac{1}{5}$

435) $\frac{1}{200}$

437) 0.4%

439) 89.6%

441) 3%

443) 62%

445) 0.9%

447) 79%

449) 73%

451) 9%

453) 0.8%

455) 98%

Write each as a decimal. Use repeating decimals.

456) $\frac{2}{3}$

458) $7\frac{2}{3}$

460) $1\frac{2}{3}$

462) $\frac{16}{33}$

464) $\frac{2}{333}$

457) $\frac{5}{33}$

459) $\frac{31}{33}$

461) $\frac{1}{333}$

463) $\frac{1}{3}$

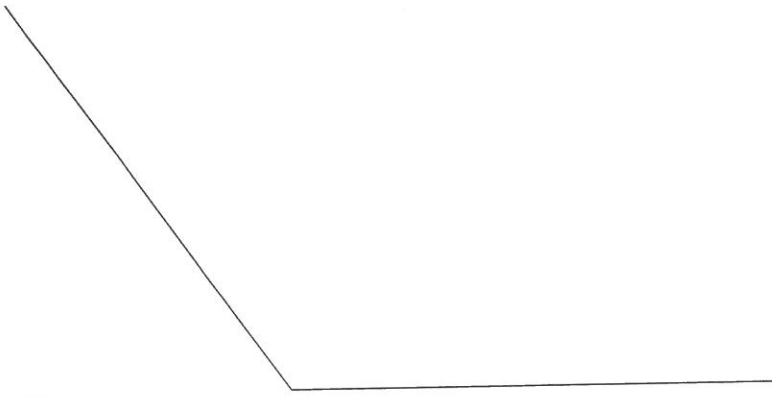
465) $\frac{13}{33}$

Find the measure of each angle to the nearest degree.

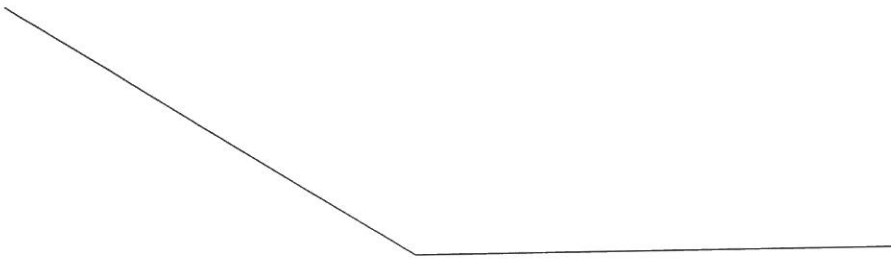
466)



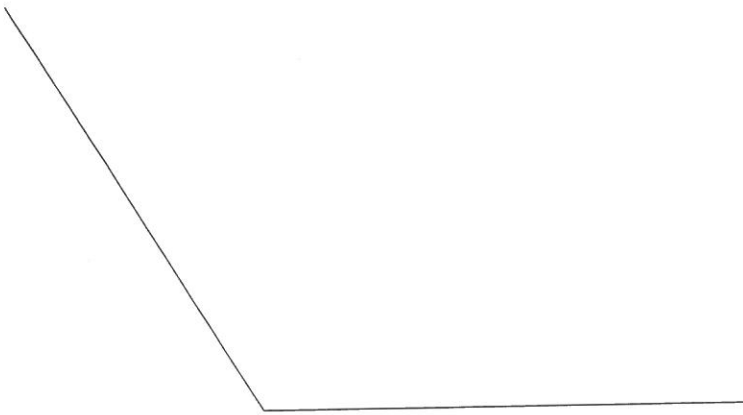
467)



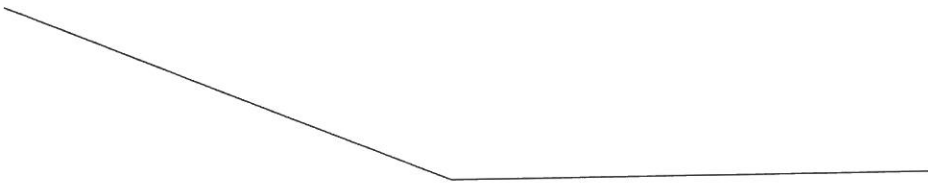
468)



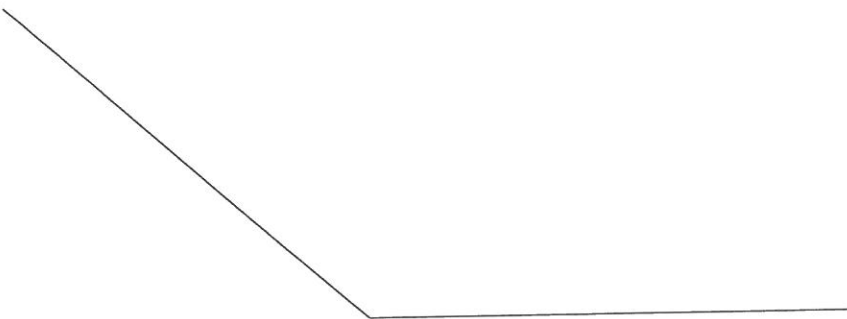
469)



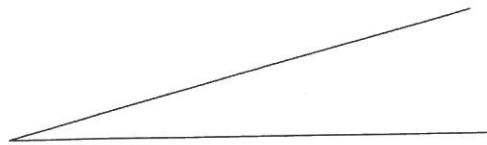
470)



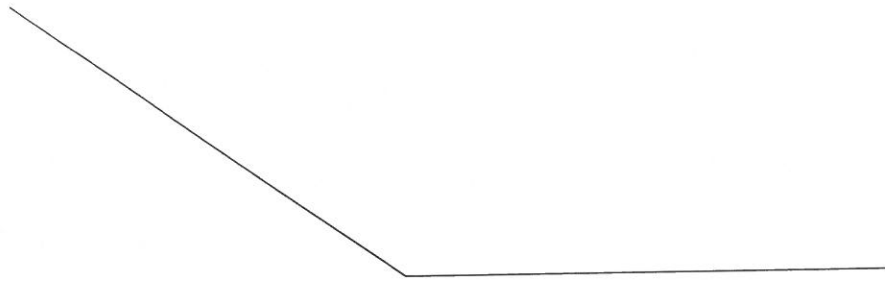
471)



472)



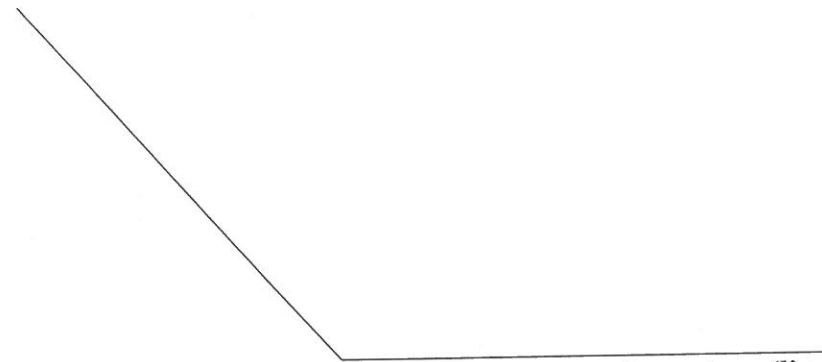
473)



474)

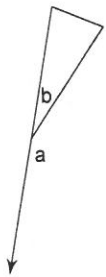


475)

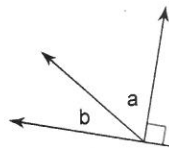


Name the relationship: complementary, supplementary (linear pair), vertical, or adjacent.

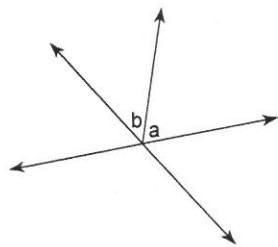
476)



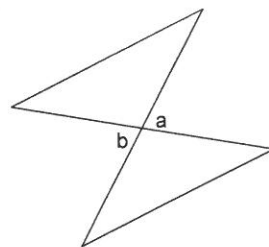
477)



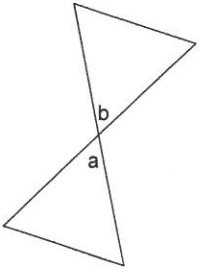
478)



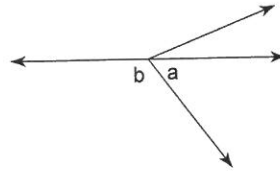
479)



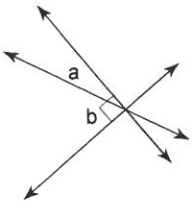
480)



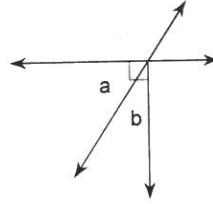
481)



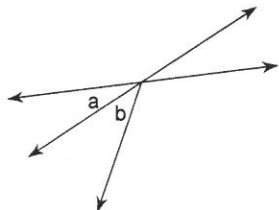
482)



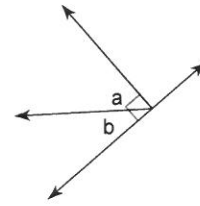
483)



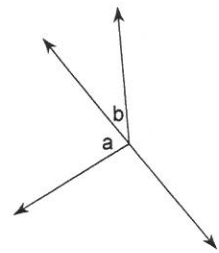
484)



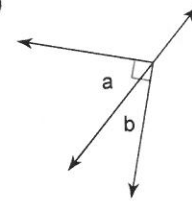
485)



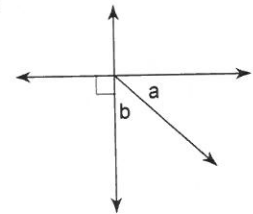
486)



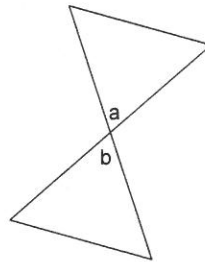
487)



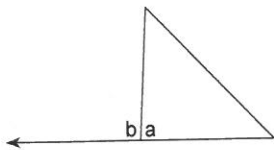
488)



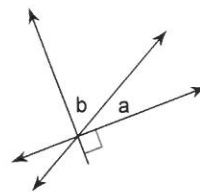
489)



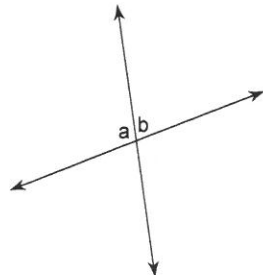
490)



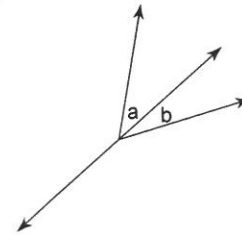
491)



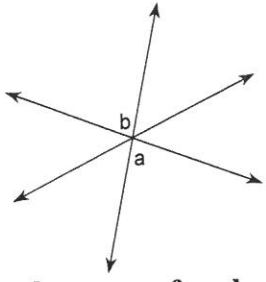
492)



493)

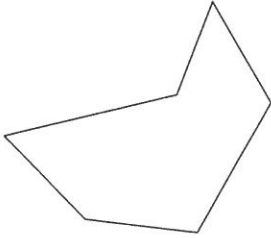


494)

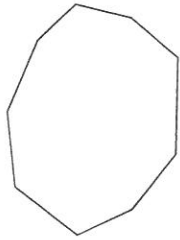


Write the name of each polygon.

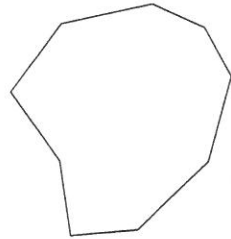
496)



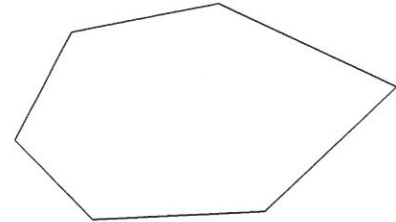
498)



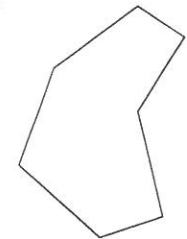
500)



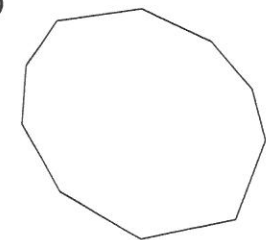
502)



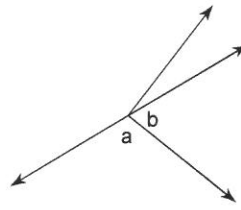
504)



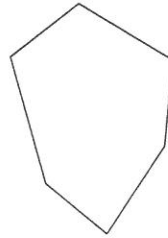
506)



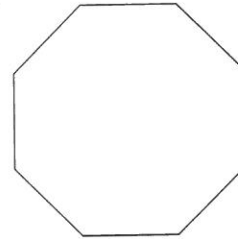
495)



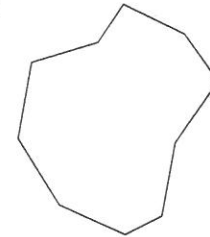
497)



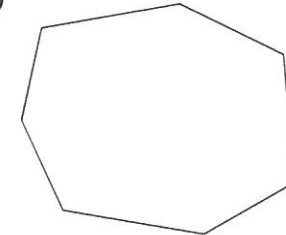
499)



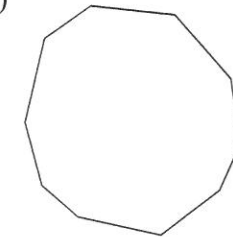
501)



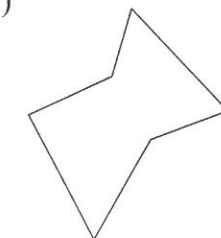
503)



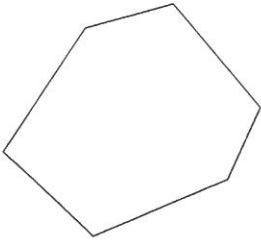
505)



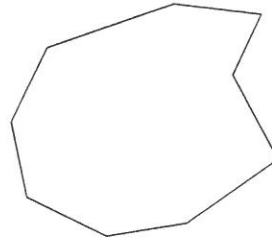
507)



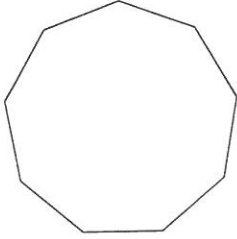
508)



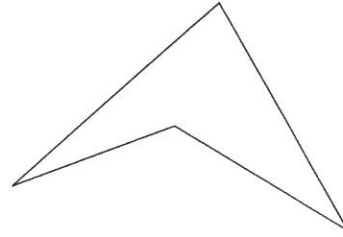
509)



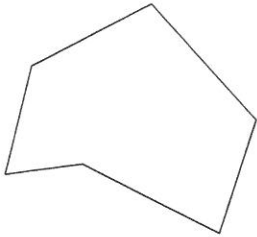
510)



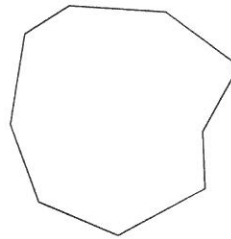
511)



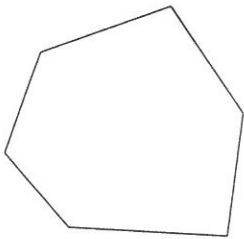
512)



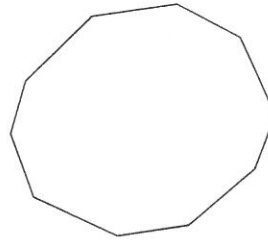
513)



514)

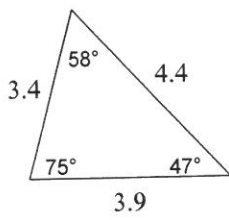


515)

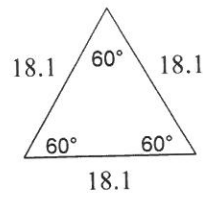


Classify each triangle by its angles and sides.

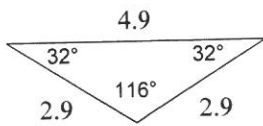
516)



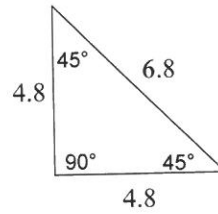
517)



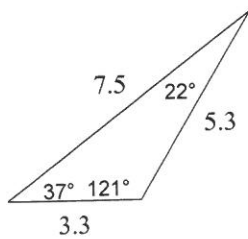
518)



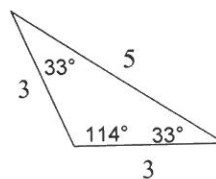
519)



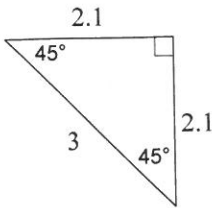
520)



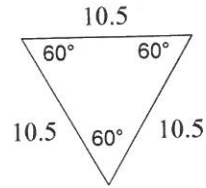
521)



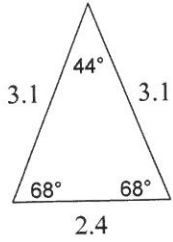
522)



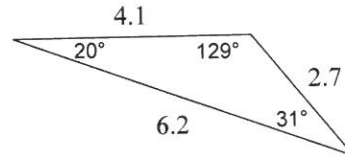
523)



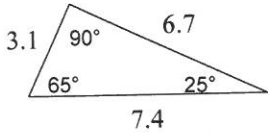
524)



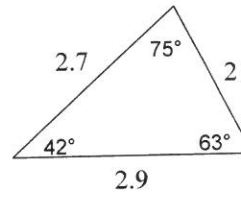
525)



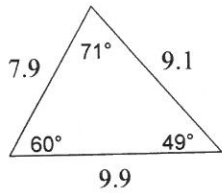
526)



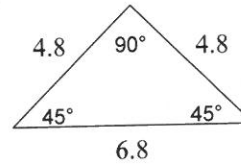
527)



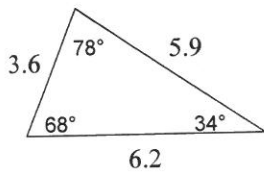
528)



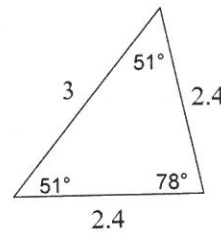
529)



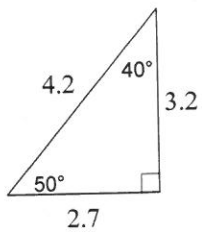
530)



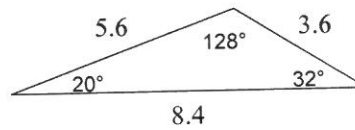
531)



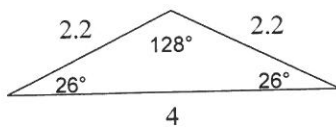
532)



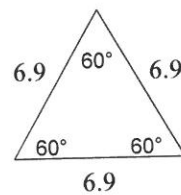
533)



534)

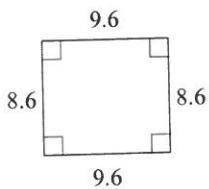


535)

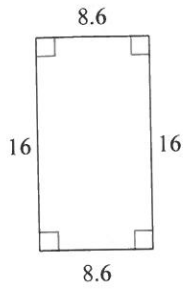


State the most specific name for each figure.

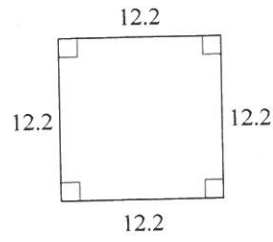
536)



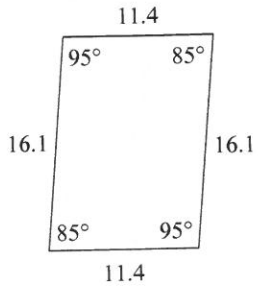
537)



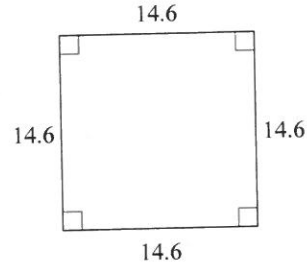
538)



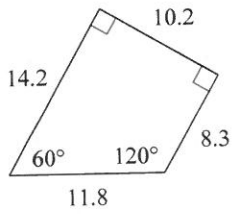
539)



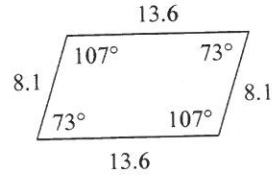
540)



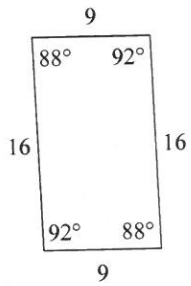
541)



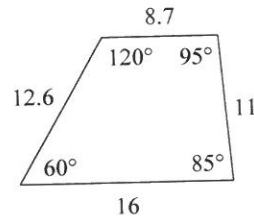
542)



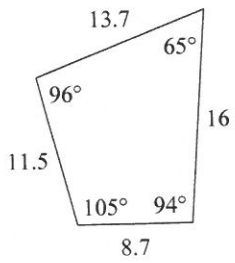
543)



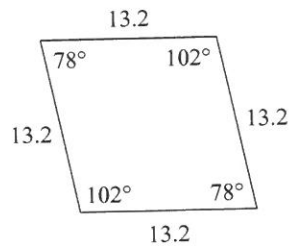
544)



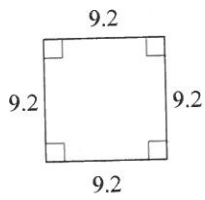
545)



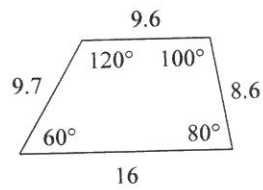
546)



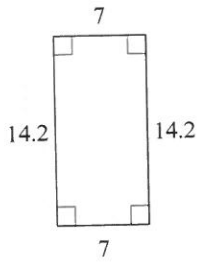
547)



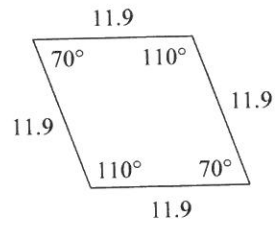
548)



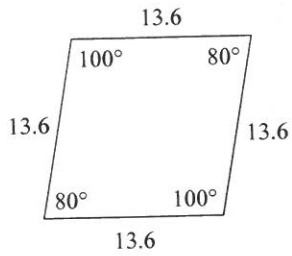
549)



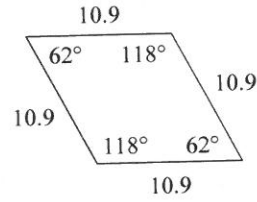
550)



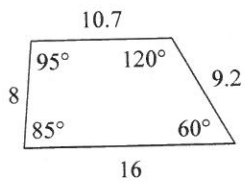
551)



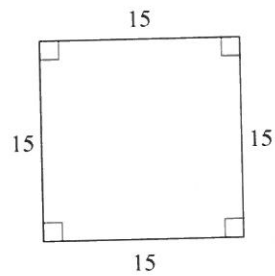
552)



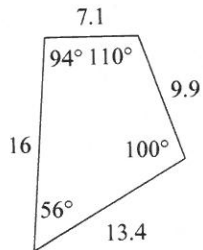
553)



554)

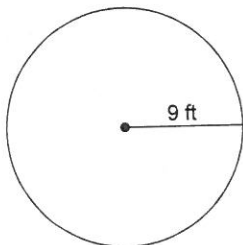


555)

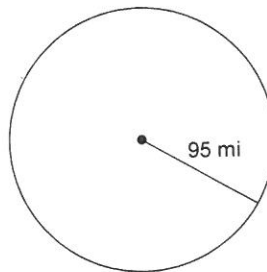


Find the circumference of each circle. Use π in your answer.

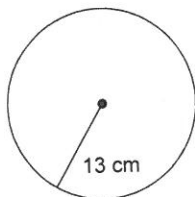
556)



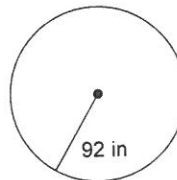
557)



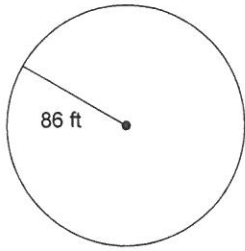
558)



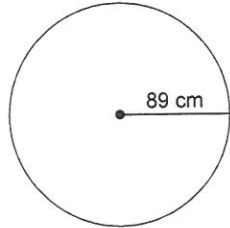
559)



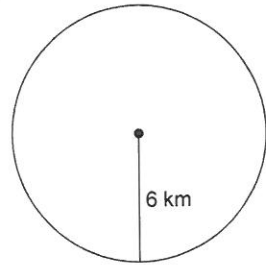
560)



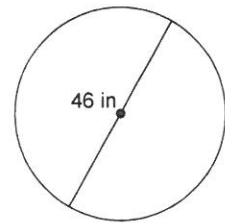
562)



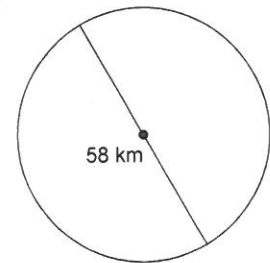
564)



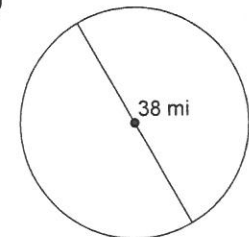
566)



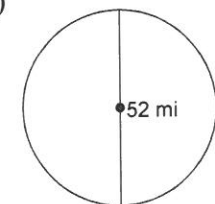
568)



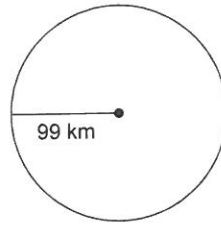
570)



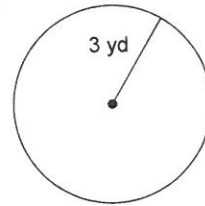
572)



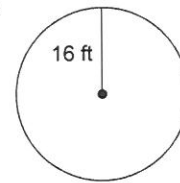
561)



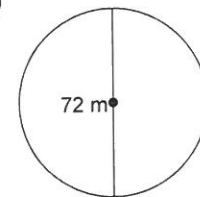
563)



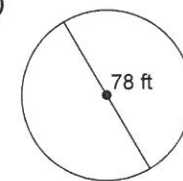
565)



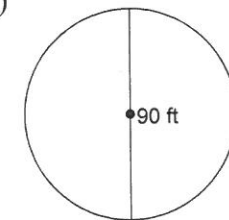
567)



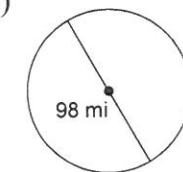
569)



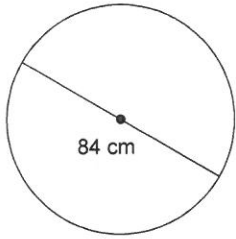
571)



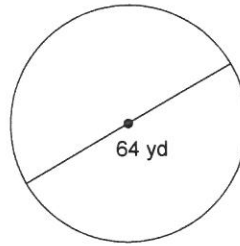
573)



574)

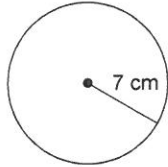


575)

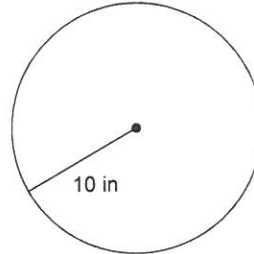


Find the area of each. Use π in your answer.

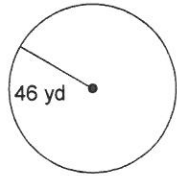
576)



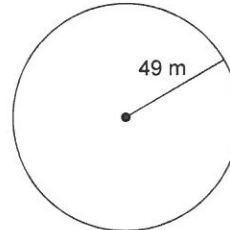
577)



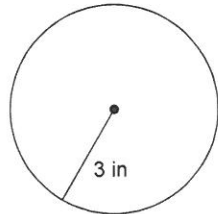
578)



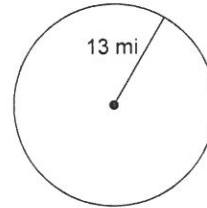
579)



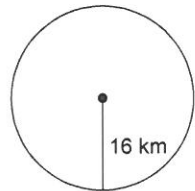
580)



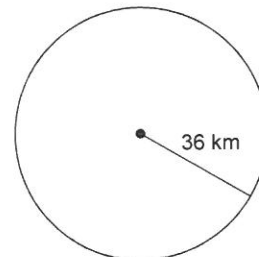
581)



582)



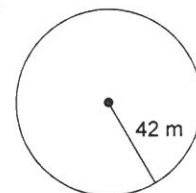
583)



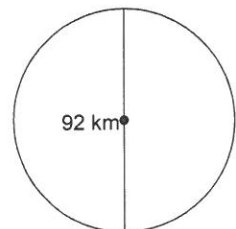
584)



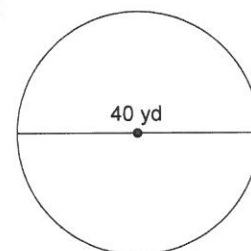
585)



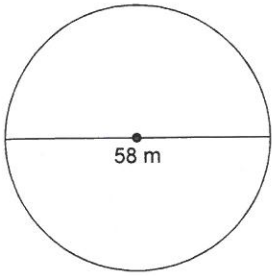
586)



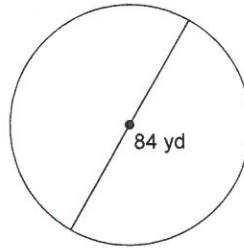
587)



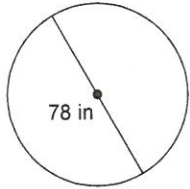
588)



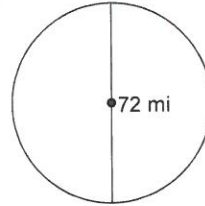
589)



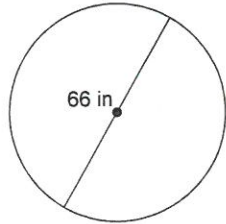
590)



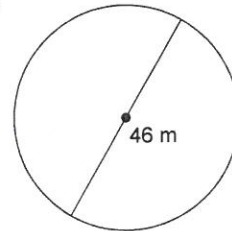
591)



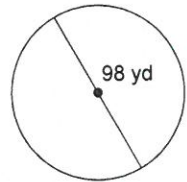
592)



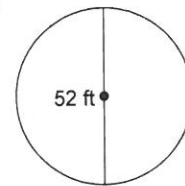
593)



594)

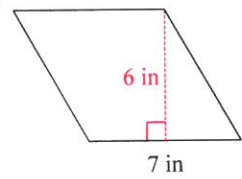


595)

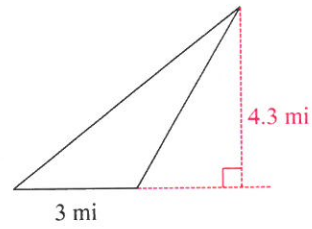


Find the area of each.

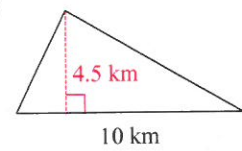
596)



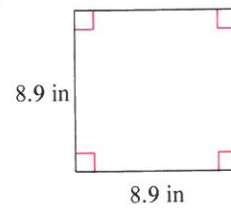
597)



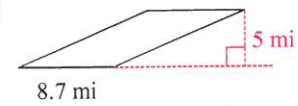
598)



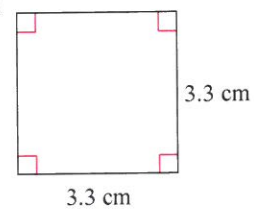
599)



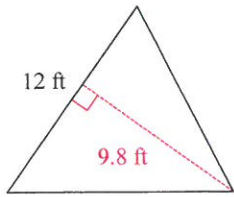
600)



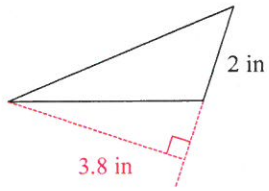
601)



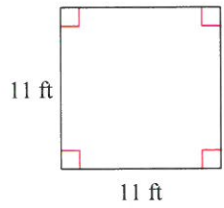
602)



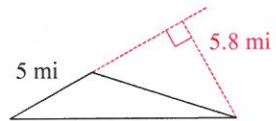
604)



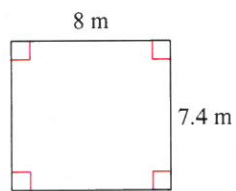
606)



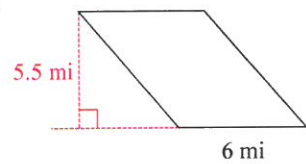
608)



610)



612)

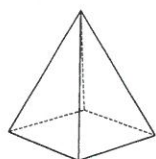


614)

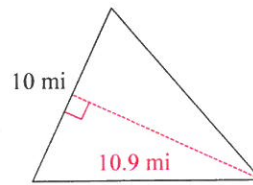


Sketch the net of each solid.

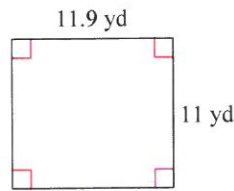
616)



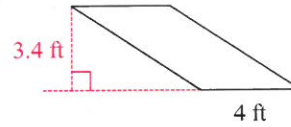
603)



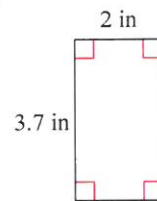
605)



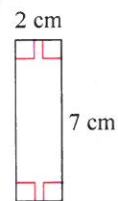
607)



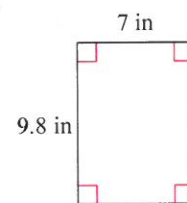
609)



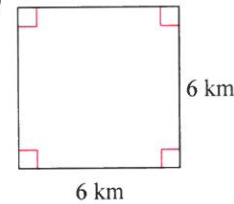
611)



613)



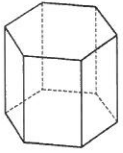
615)



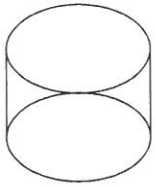
617)



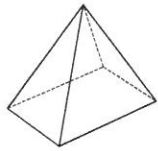
618)



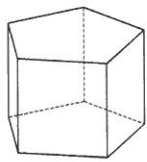
620)



622)



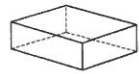
624)



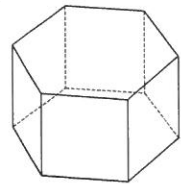
626)



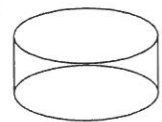
628)



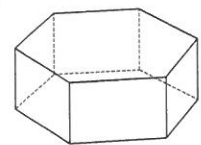
630)



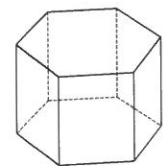
632)



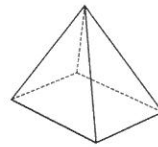
634)



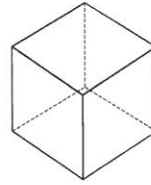
636)



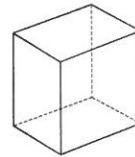
619)



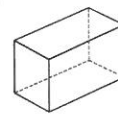
621)



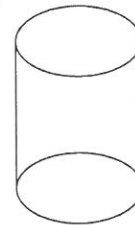
623)



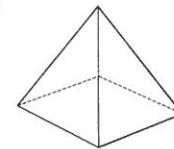
625)



627)



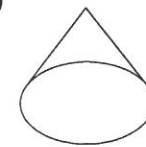
629)



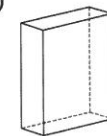
631)



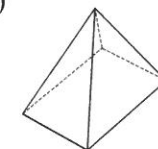
633)



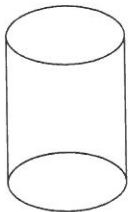
635)



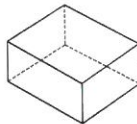
637)



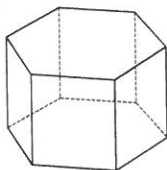
638)



639)

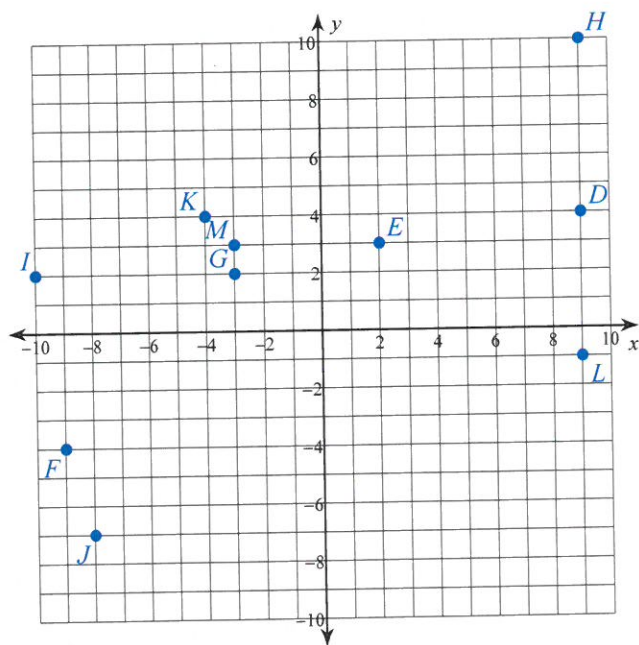


640)

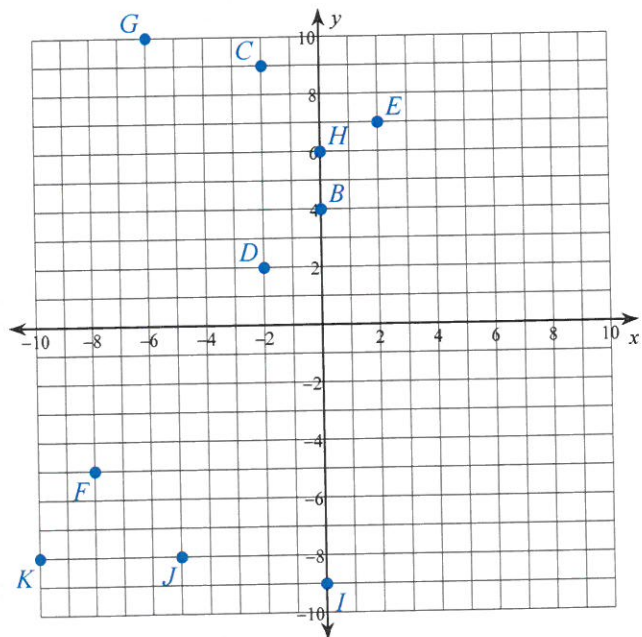


State the coordinates of each point.

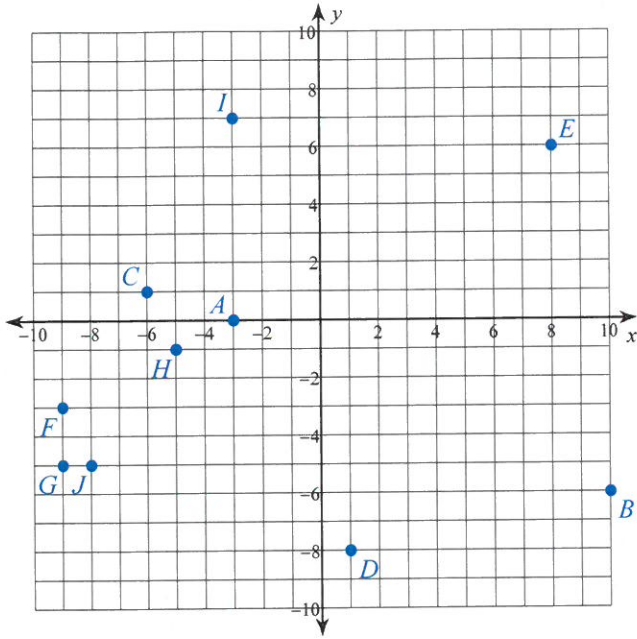
641)



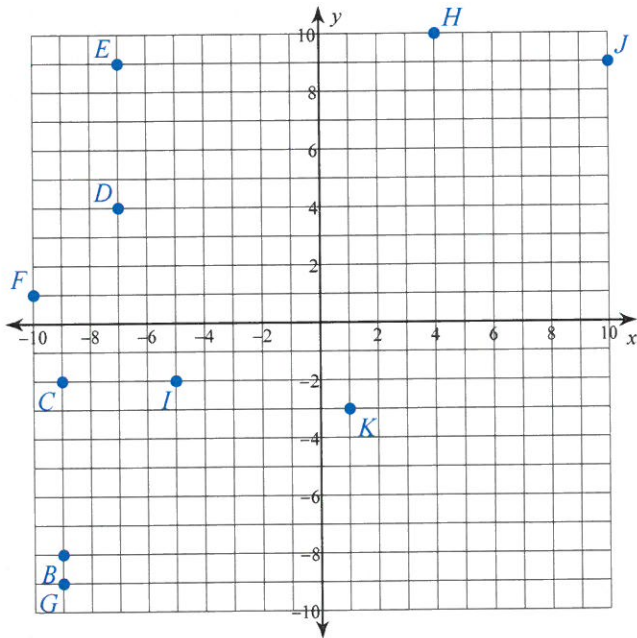
642)



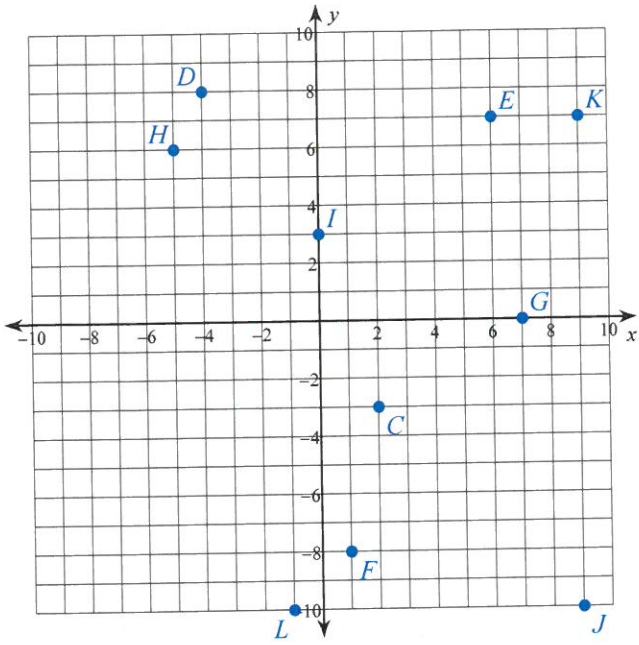
643)



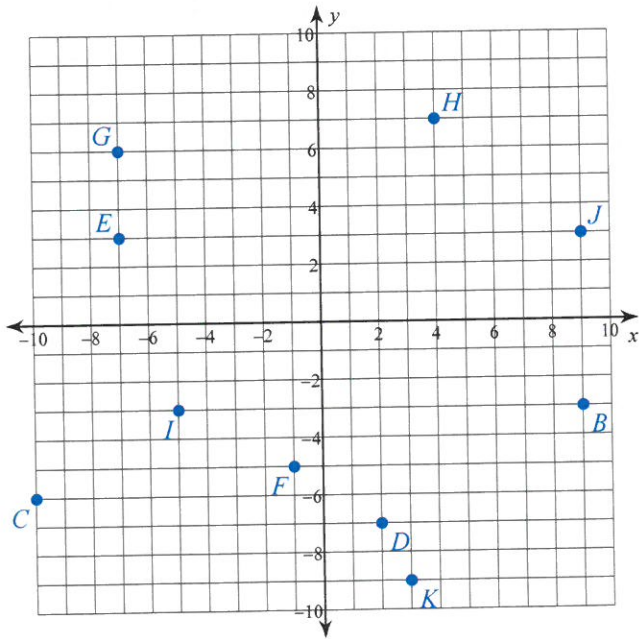
644)



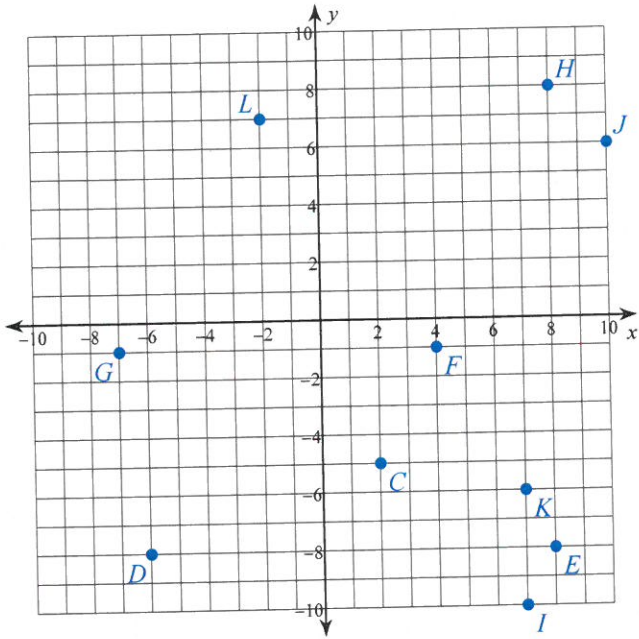
645)



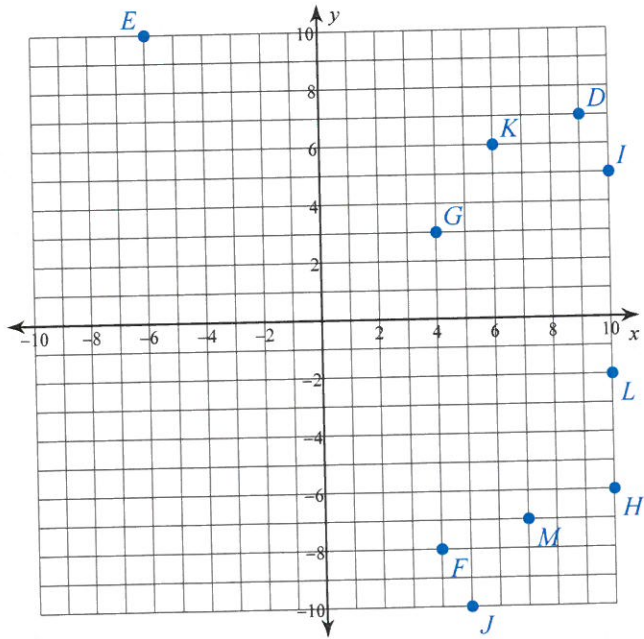
646)



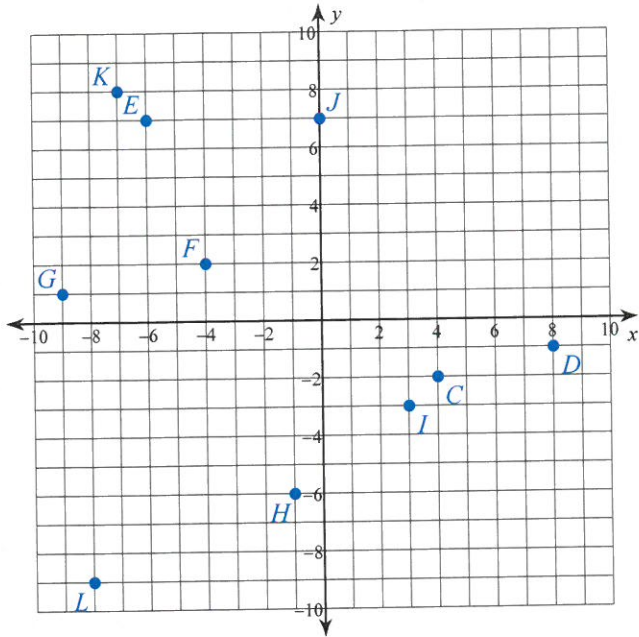
647)



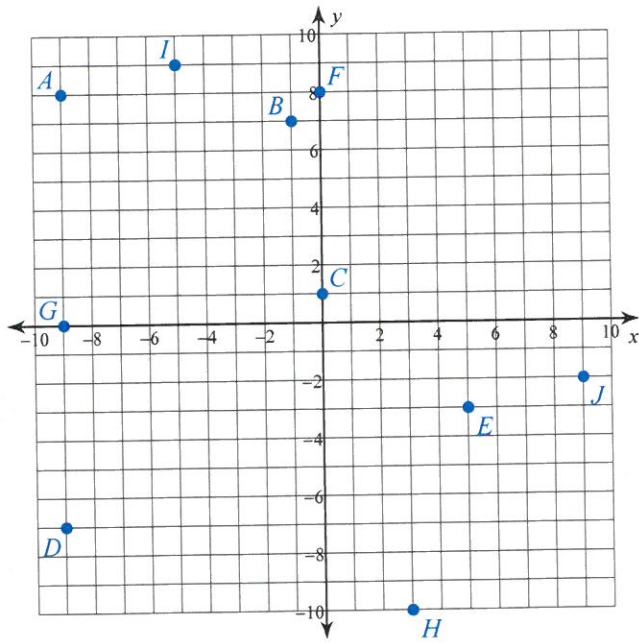
648)



649)

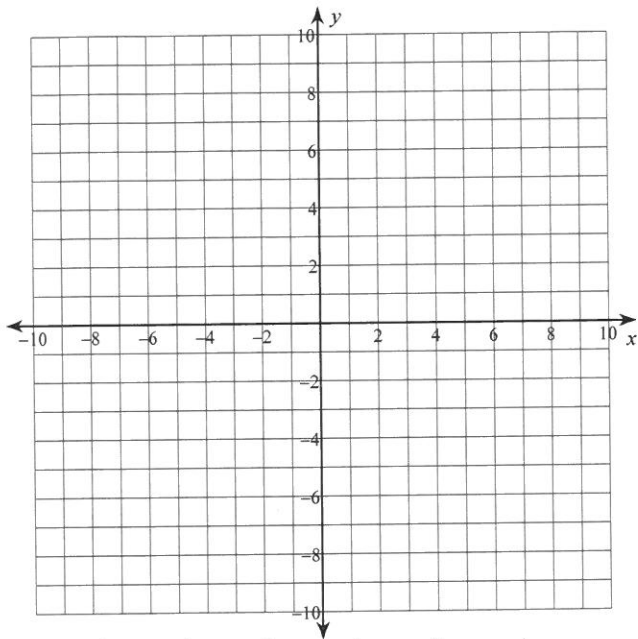


650)

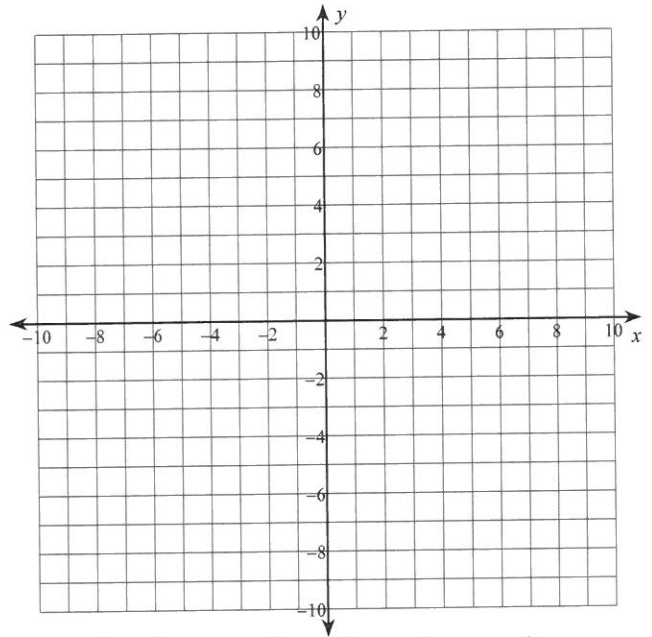


Plot each point.

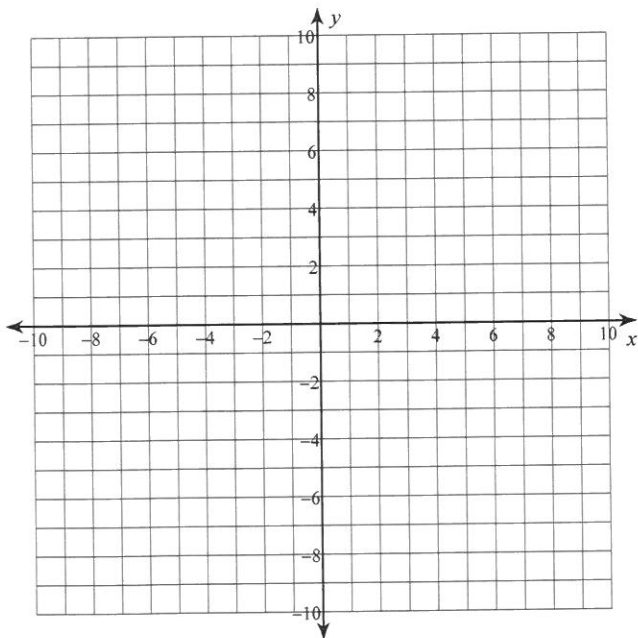
- 651) $E(-2, 9)$ $F(-1, 9)$ $G(5, 9)$
 $H(6, -6)$ $I(0, 7)$ $J(4, -5)$
 $K(7, 5)$ $L(-4, 0)$ $M(-7, -9)$
 $N(-9, -9)$



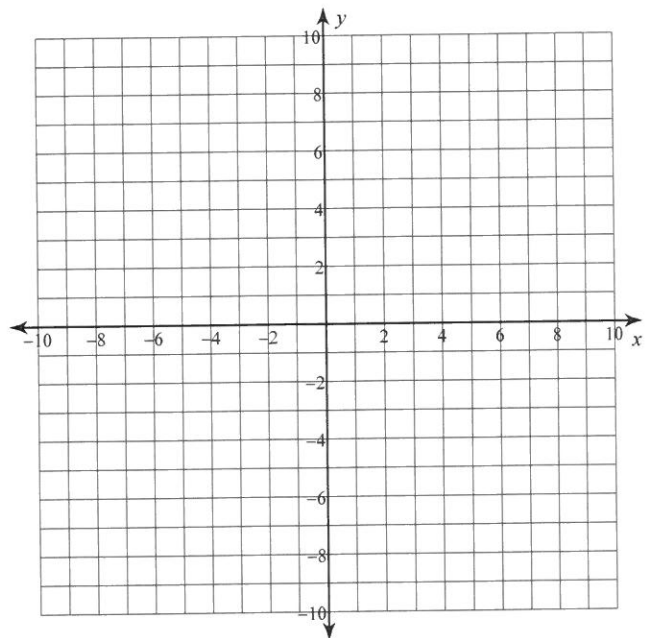
- 652) $N(2, -10)$ $M(-2, -2)$ $L(6, -3)$
 $K(8, 7)$ $J(-6, 6)$ $I(-10, 8)$
 $H(0, -9)$ $G(8, -4)$ $F(-4, -9)$
 $E(5, 10)$



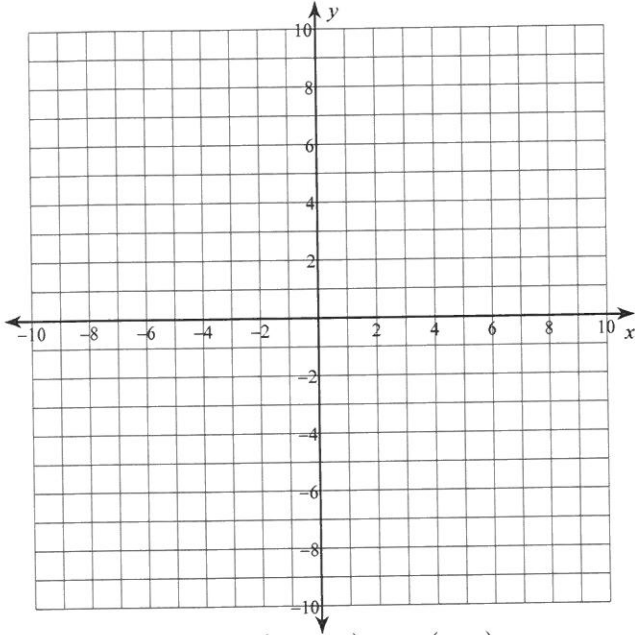
- 653) $B(-9, -3)$ $C(-7, -2)$ $D(-7, -9)$
 $E(-7, 10)$ $F(6, 8)$ $G(-6, -4)$
 $H(9, -8)$ $I(9, 5)$ $J(4, 3)$
 $K(-9, -8)$



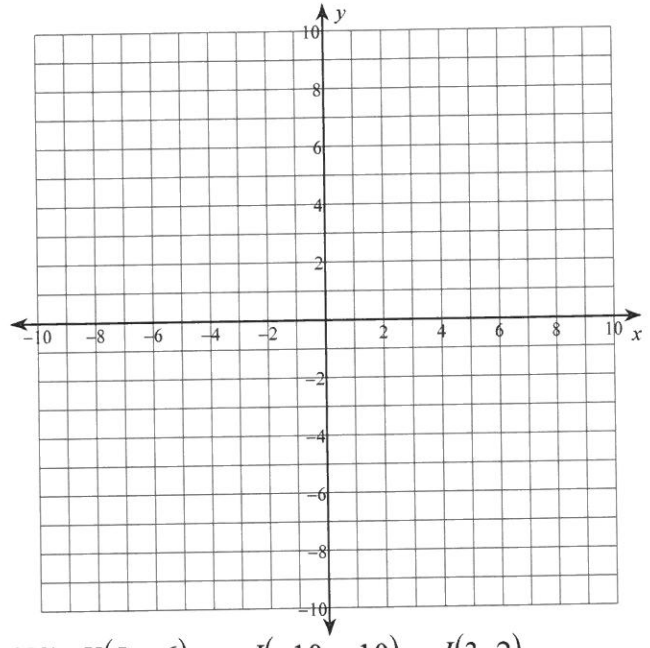
- 654) $E(8, 3)$ $F(-3, 3)$ $G(-10, -1)$
 $H(-5, -3)$ $I(8, -2)$ $J(-6, 9)$
 $K(-9, 9)$ $L(7, -8)$ $M(-4, -8)$
 $N(-10, 2)$



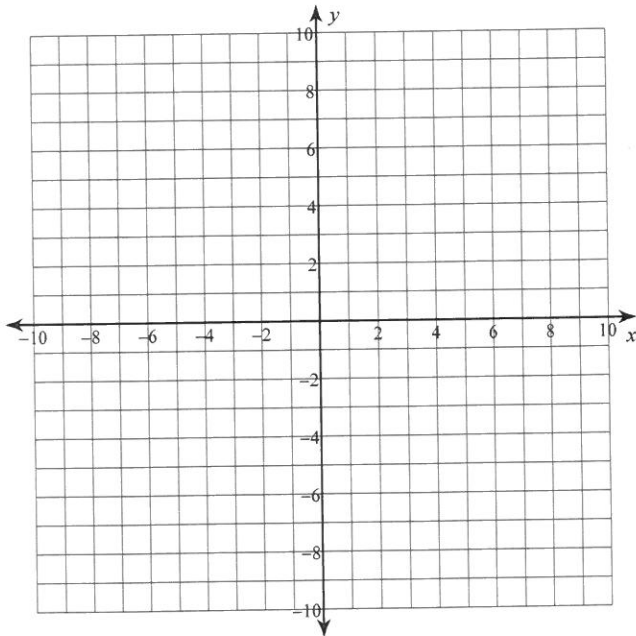
655) $L(5, -2)$ $K(5, -1)$ $J(-10, 7)$
 $I(-5, -8)$ $H(4, 4)$ $G(-1, 7)$
 $F(-6, -5)$ $E(1, -4)$ $D(8, 10)$
 $C(-1, -8)$



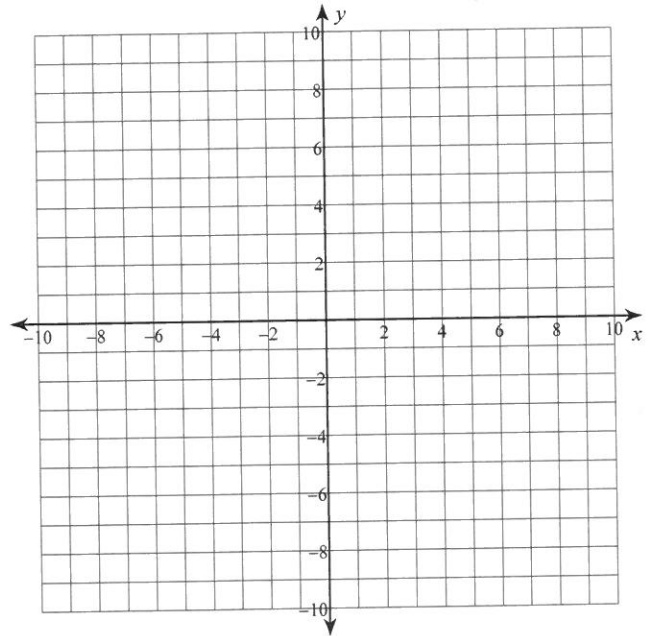
656) $L(8, 2)$ $K(-1, 9)$ $J(-5, 0)$
 $I(8, 6)$ $H(2, -4)$ $G(-4, 7)$
 $F(3, 4)$ $E(-4, 1)$ $D(5, -3)$
 $C(-4, -4)$



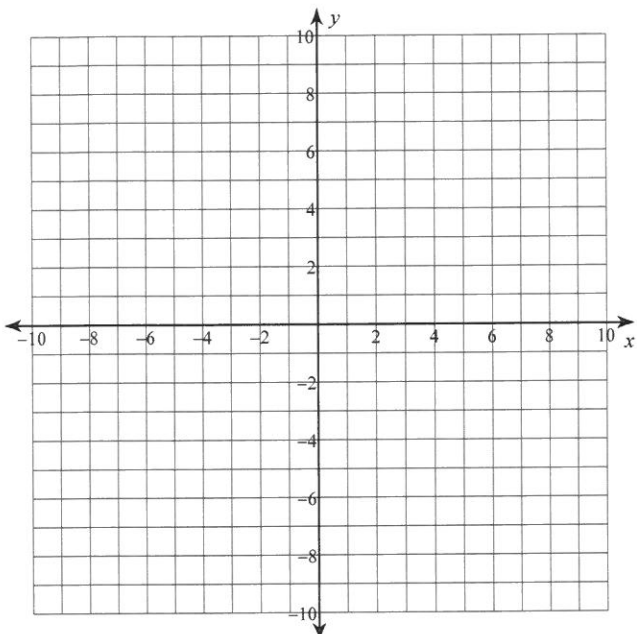
657) $B(-7, 5)$ $C(-5, -1)$ $D(9, 9)$
 $E(1, -8)$ $F(8, 1)$ $G(7, 7)$
 $H(-8, 8)$ $I(-2, -5)$ $J(6, 9)$
 $K(3, -10)$



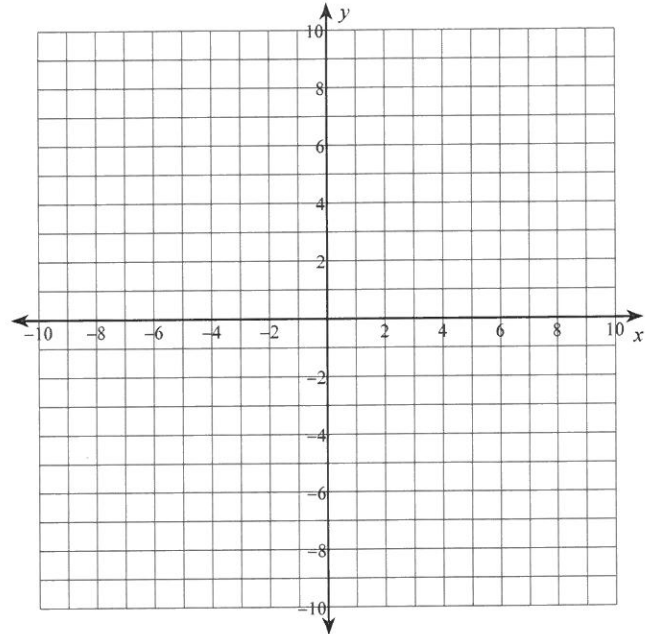
658) $K(5, -6)$ $J(-10, -10)$ $I(3, 2)$
 $H(-2, -3)$ $G(-9, -8)$ $F(5, 8)$
 $E(10, -3)$ $D(-8, -5)$ $C(5, -5)$
 $B(-9, 8)$



- 659) $E(-6, 0)$ $F(10, -6)$ $G(-5, 6)$
 $H(3, -6)$ $I(-7, -9)$ $J(4, 5)$
 $K(-6, 6)$ $L(0, 9)$ $M(1, -1)$
 $N(-5, -8)$

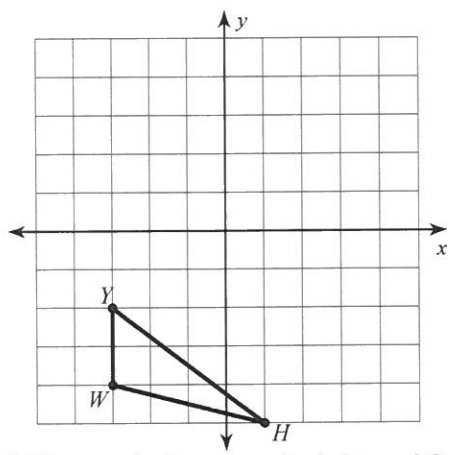


- 660) $D(-9, 3)$ $E(-8, -6)$ $F(3, 10)$
 $G(10, -6)$ $H(2, -3)$ $I(-9, -8)$
 $J(-4, 0)$ $K(4, -5)$ $L(-1, 8)$
 $M(-3, 8)$

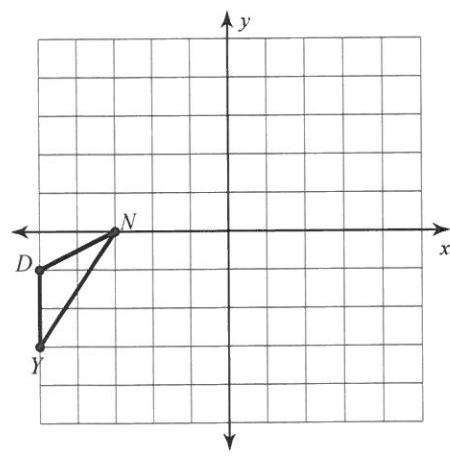


Graph the image of the figure using the transformation given.

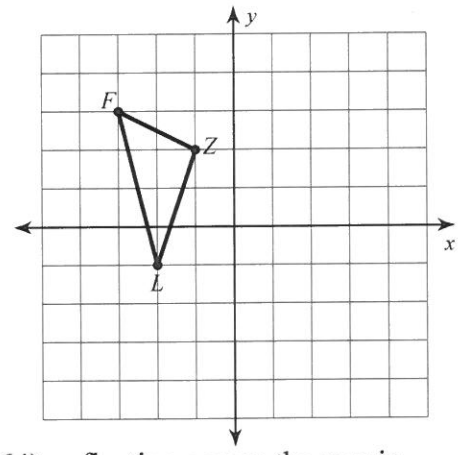
- 661) rotation 90° clockwise about the origin



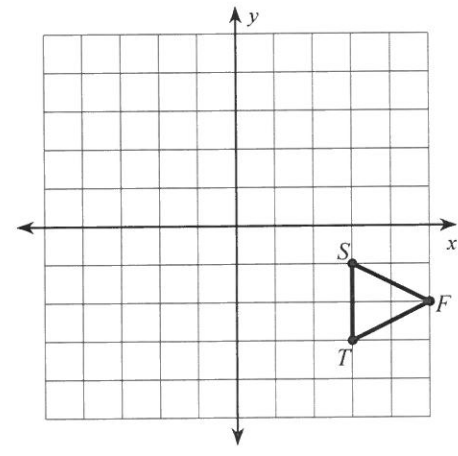
- 663) translation: 1 unit right and 2 units up



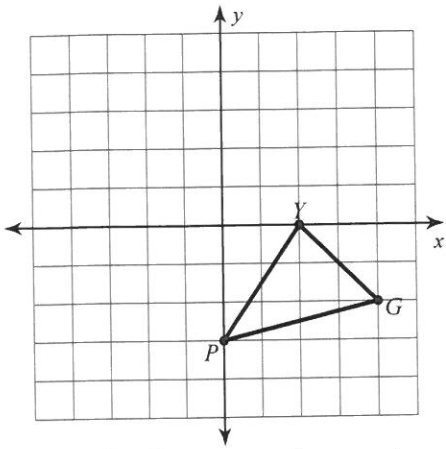
- 662) reflection across the x-axis



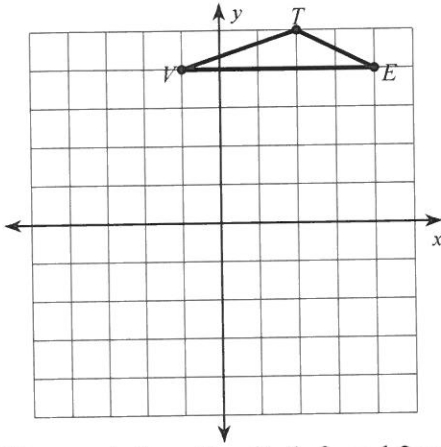
- 664) reflection across the y-axis



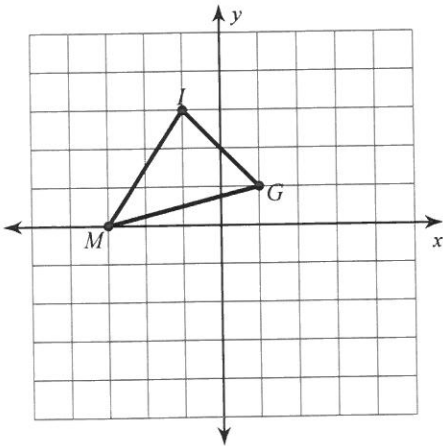
665) translation: 1 unit right and 2 units up



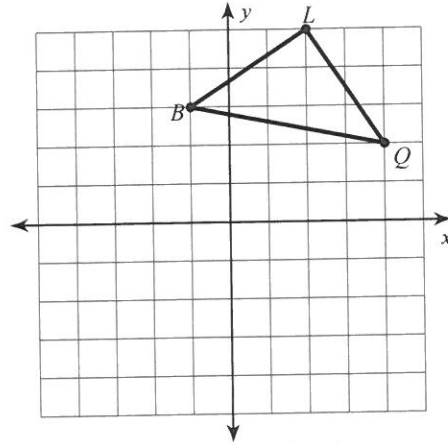
667) reflection across the x-axis



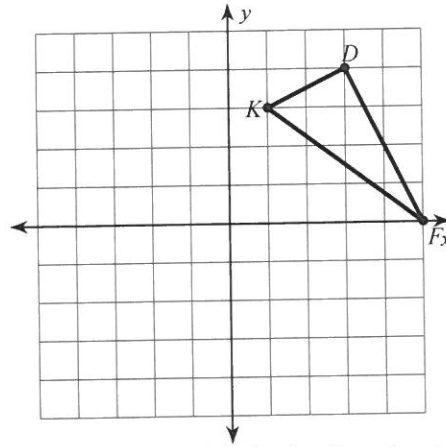
669) translation: 2 units left and 2 units down



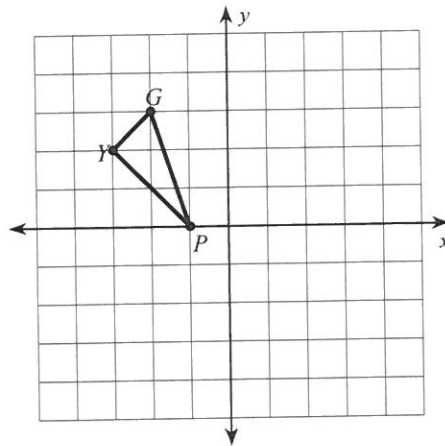
666) rotation 180° about the origin



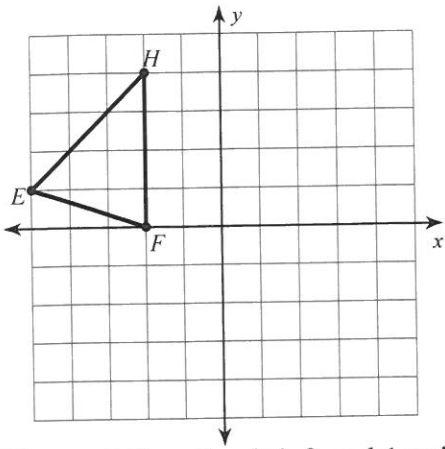
668) translation: 2 units down



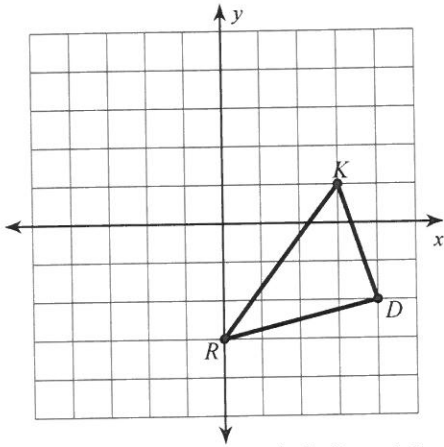
670) rotation 90° clockwise about the origin



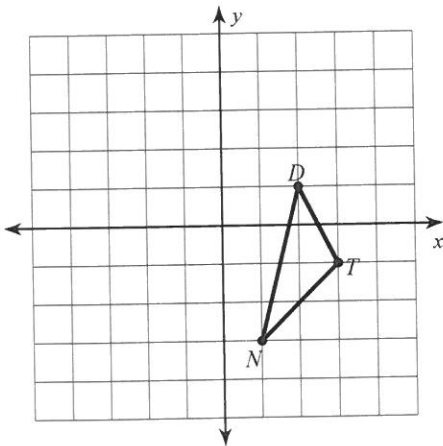
671) reflection across the x-axis



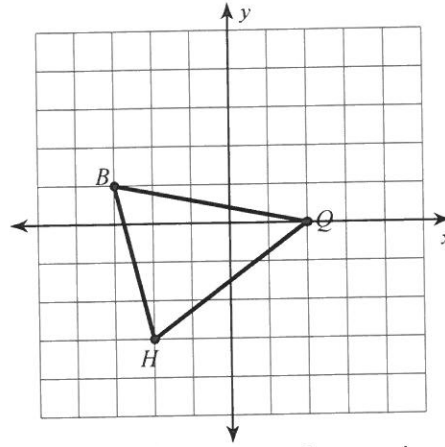
673) translation: 1 unit left and 1 unit down



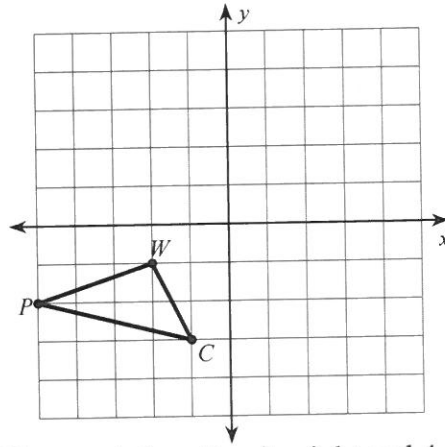
675) translation: 1 unit left and 1 unit down



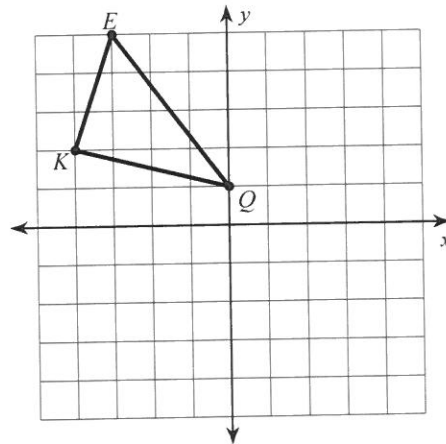
672) rotation 90° clockwise about the origin



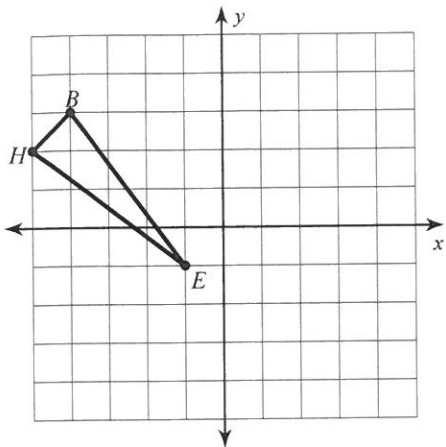
674) reflection across the x-axis



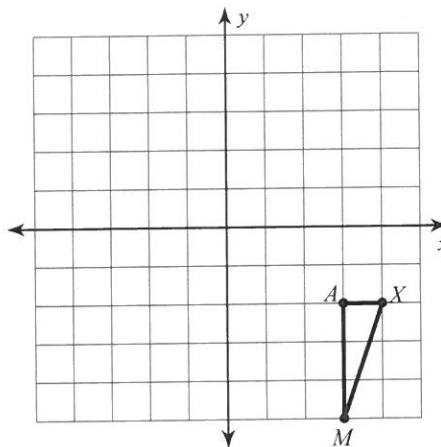
676) translation: 3 units right and 4 units down



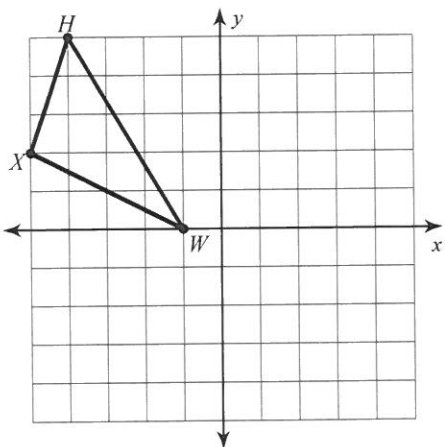
677) reflection across the y-axis



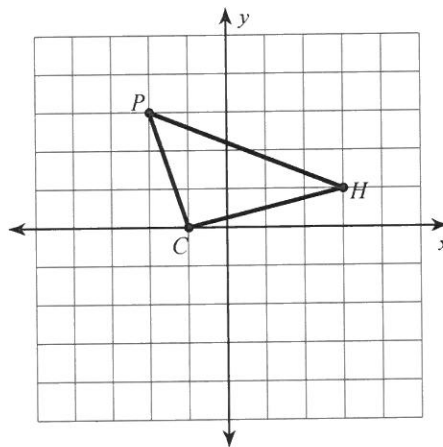
678) reflection across the x-axis



679) reflection across the y-axis



680) rotation 90° clockwise about the origin



Solve each proportion.

681) $\frac{9}{6} = \frac{6}{x}$

683) $\frac{3}{n} = \frac{4}{12}$

685) $\frac{14}{n} = \frac{7}{13}$

687) $\frac{p}{10} = \frac{6}{12}$

689) $\frac{12}{9} = \frac{p}{3}$

691) $\frac{2}{a} = \frac{4}{8}$

693) $\frac{9}{2} = \frac{2}{x}$

695) $\frac{x}{3} = \frac{7}{11}$

697) $\frac{14}{3} = \frac{10}{x}$

699) $\frac{8}{4} = \frac{7}{n}$

682) $\frac{8}{10} = \frac{3}{12k}$

684) $\frac{5}{v} = \frac{13}{2}$

686) $\frac{14}{12} = \frac{11}{11v}$

688) $\frac{n}{9} = \frac{4}{6}$

690) $\frac{2}{5} = \frac{n}{7}$

692) $\frac{7}{14} = \frac{14}{v}$

694) $\frac{14}{4} = \frac{9}{10a}$

696) $\frac{13}{7} = \frac{x}{4}$

698) $\frac{8}{2} = \frac{x}{6}$

700) $\frac{2}{12} = \frac{k}{4}$

Write each as a percent. Round to the nearest percent.

701) $\frac{3}{25}$

703) $7\frac{89}{100}$

705) $\frac{1}{100}$

707) $\frac{2}{5}$

709) $\frac{7}{10}$

711) $3\frac{1}{10}$

713) $\frac{3}{4}$

715) $\frac{1}{2}$

717) $\frac{17}{80}$

719) $9\frac{7}{10}$

721) 0.01

723) 0.21

725) 0.69

727) 0.6

729) 0.75

731) 0.5

733) 0.31

735) 0.09

737) 0.76

739) 0.15

702) $\frac{1}{159}$

704) $\frac{23}{100}$

706) $\frac{1}{280}$

708) $\frac{1}{45}$

710) $6\frac{1}{2}$

712) $\frac{3}{5}$

714) $\frac{1}{4}$

716) $\frac{19}{100}$

718) $\frac{64}{75}$

720) $\frac{7}{8}$

722) 0.93

724) 0.04

726) 0.13

728) 0.2

730) 0.32

732) 0.8

734) 0.53

736) 0.44

738) 0.25

740) 0.52

Solve each problem.

741) 46% of 96 is what?

743) 7% of 94.7 is what?

745) 43% of 1 is what?

747) What is 27% of 15.3?

749) What is 93% of 61?

751) What is 86% of 141?

753) What is 4% of 118.5?

755) 17% of 118 is what?

757) What is 36% of 71?

759) 30% of 119.4 is what?

742) 33% of 95 is what?

744) What is 40% of 16?

746) 99% of 13.5 is what?

748) What is 10% of 38?

750) 90% of 117 is what?

752) What is 14% of 14?

754) What is 96% of 37?

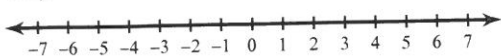
756) What is 83% of 37?

758) 23% of 39 is what?

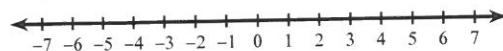
760) 20% of 94 is what?

Draw a graph for each inequality.

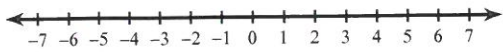
761) $k < 4$



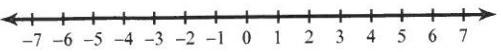
762) $a \geq 1$



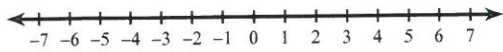
763) $n \leq 1$



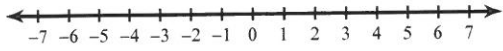
765) $x \geq -5$



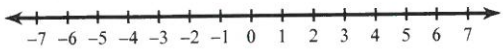
767) $n \leq -6$



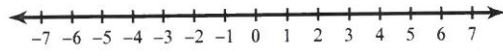
769) $x \leq -2$



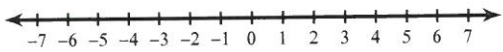
771) $n > -2$



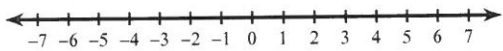
773) $m < 1$



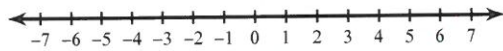
775) $x > 4$



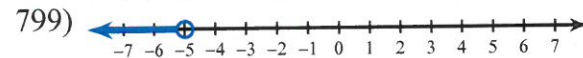
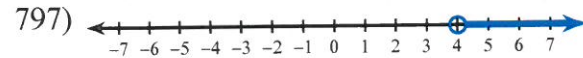
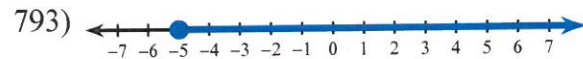
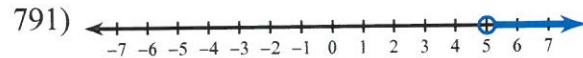
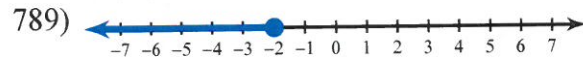
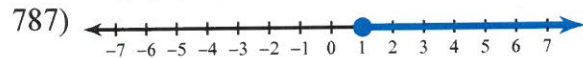
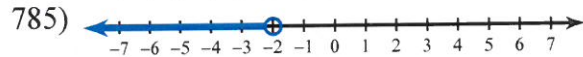
777) $x \geq -6$



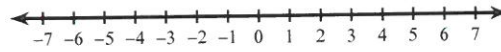
779) $n > -3$



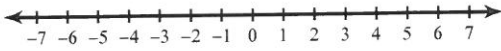
Write an inequality for each graph.



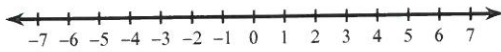
764) $r \leq 4$



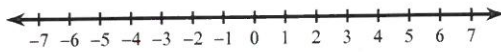
766) $x \geq -2$



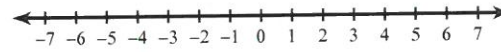
768) $v \geq 4$



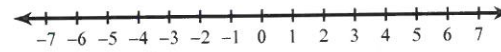
770) $v > 1$



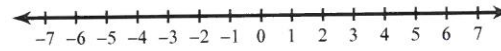
772) $n < -3$



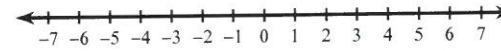
774) $n < -2$



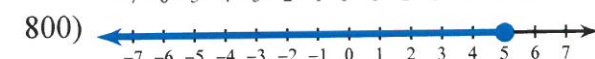
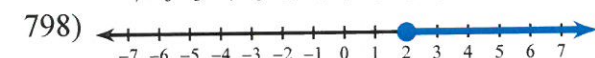
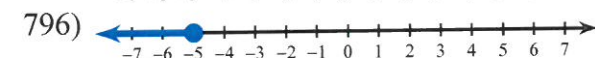
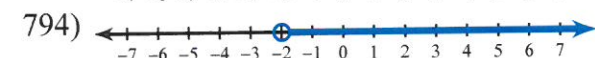
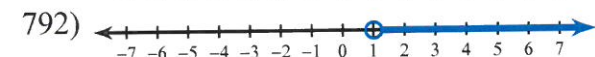
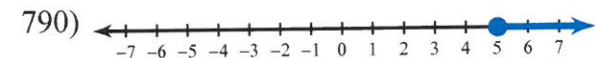
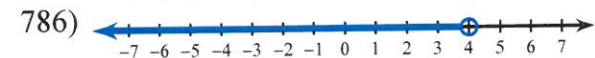
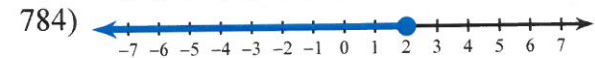
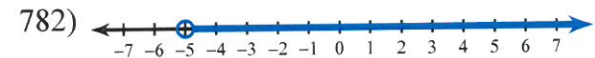
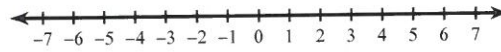
776) $x < -6$



778) $r \leq -5$



780) $x > -6$



Convert.

801. 5 yards to inches.

802. 7 yards to inches.

803. 6 yards to inches.

804. 11 yards to inches.

805. 10 yards to inches.

806. 8 yards to inches.

807. 3 yards to inches.

808. 4 yards to inches.

809. 9 yards to inches.

810. 2 yards to inches.

811. 14 inches to feet.

812. 29 inches to feet.

813. 16 inches to feet.

814. 17 inches to feet.

815. 23 inches to feet.

816. 20 inches to feet.

817. 25 inches to feet.

818. 6 inches to feet.

819. 9 inches to feet.

820. 30 inches to feet.

821. Six centimeters is how many millimeters?

822. Five kilometers is how many meters?

823. Three meters is how many millimeters?

824. One meter is how many centimeters?

825. Two centimeters is how many millimeters?

826. Four kilometers is how many meters?

827. Eight meters is how many centimeters?

828. Seven meters is how many millimeters?

829. Six meters is how many centimeters?

830. Five centimeters is how many millimeters?

831. 465 centimeters to meters.

832. 639 centimeters to meters.

833. 685 centimeters to meters.

834. 349 centimeters to meters.

835. 395 centimeters to meters.

836. 310 centimeters to meters.

837. 810 centimeters to meters.

838. 972 centimeters to meters.

839. 501 centimeters to meters.

840. 459 centimeters to meters.

841. 36 quarts to gallons.

842. 12 quarts to gallons.

843. 5 quarts to pints.

844. 28 quarts to gallons.

845. 3 quarts to pints.

846. 26 cups to quarts.

847. 17 pints to gallons.

848. 16 pints to gallons.

849. 22 cups to quarts.

850. 12 cups to quarts.

851. 32 liters = ___ milliliters

852. 30 liters = ___ milliliters

853. 50 liters = ___ milliliters

854. 34 liters = ___ milliliters

855. 18 liters = ___ milliliters

856. How many liters are in 4 kiloliters?

857. How many liters are in 7 kiloliters?

858. How many liters are in 9 kiloliters?

859. How many liters are in 3 kiloliters?

860. How many liters are in 12 kiloliters?

861. How many pounds are in four tons?

862. How many pounds are in seven tons?

863. How many pounds are in six tons?

864. How many pounds are in three tons?

865. How many pounds are in five tons?

866. 18,000 grams = ___ kilograms

867. 49,000 grams = ___ kilograms

868. 98,000 grams = ___ kilograms

869. 66,000 grams = ___ kilograms

870. 20,000 grams = ___ kilograms

871. 48 ounces to pounds.

872. 160 ounces to pounds.

873. 192 ounces to pounds.

874. 144 ounces to pounds.

875. 128 ounces to pounds.

876. 325 grams = ___ milligrams

877. 2,950 grams = ___ milligrams

878. 1,484 grams = ___ milligrams

879. 770 grams = ___ milligrams

880. 1,992 grams = ___ milligrams

881. Add 2 feet 10 inches and 8 feet 8 inches.

882. Add 6 feet 5 inches and 5 feet 11 inches.

883. Add 4 feet 4 inches and 9 feet 10 inches.

884. Add 3 feet 6 inches and 15 feet 1 inch.

885. Add 10 feet 3 inches and 14 feet 4 inches.

886. Add 9 feet 7 inches and 10 feet 2 inches.

887. Add 8 feet 8 inches and 12 feet 9 inches.

888. Add 5 feet 11 inches and 6 feet 7 inches.

889. Add 7 feet 2 inches and 13 feet 5 inches.

890. Add 2 feet 1 inch and 11 feet 6 inches.

891. Divide 118 pounds 2 ounces by 9.

892. Divide 82 pounds 11 ounces by 9.

893. Divide 21 pounds 12 ounces by 2.

897. Divide 91 pounds 2 ounces by 6.

894. Divide 161 pounds 8 ounces by 8.

898. Divide 34 pounds 14 ounces by 3.

895. Divide 15 pounds 6 ounces by 2.

899. Divide 51 pounds 10 ounces by 2.

896. Divide 96 pounds 9 ounces by 5.

900. Divide 33 pounds 14 ounces by 2.

901. A carpenter cuts 6 feet 5 inches from a board of length 13 feet 4 inches. What is the length of the board after the cut?

902. A carpenter cuts 4 feet 11 inches from a board of length 11 feet 10 inches. What is the length of the board after the cut?

903. A carpenter cuts 3 feet 9 inches from a board of length 15 feet 6 inches. What is the length of the board after the cut?

904. A carpenter cuts 1 foot 8 inches from a board of length 12 feet 7 inches. What is the length of the board after the cut?

905. A carpenter cuts 6 feet 10 inches from a board of length 8 feet 9 inches. What is the length of the board after the cut?

906. A carpenter cuts 1 foot 7 inches from a board of length 8 feet 1 inch. What is the length of the board after the cut?

907. A carpenter cuts 3 feet 3 inches from a board of length 13 feet 2 inches. What is the length of the board after the cut?

908. A carpenter cuts 6 feet 11 inches from a board of length 15 feet 4 inches. What is the length of the board after the cut?

909. A carpenter cuts 2 feet 9 inches from a board of length 10 feet 8 inches. What is the length of the board after the cut?

910. A carpenter cuts 4 feet 8 inches from a board of length 14 feet 6 inches. What is the length of the board after the cut?

Study Guide Final Answer Section

1. $\frac{15}{25}$ and 15 to 25
2. $\frac{36}{45}$ and 36 to 45
3. $\frac{6}{42}$ and 6 to 42
4. $\frac{16}{20}$ and 16 to 20
5. $\frac{24}{40}$ and 24 to 40
6. $\frac{24}{56}$ and 24 to 56
7. $\frac{9}{63}$ and 9 to 63
8. $\frac{15}{25}$ and 15 to 25
9. $\frac{4}{28}$ and 4 to 28
10. $\frac{7}{63}$ and 7 to 63
11. \$0.03
12. \$0.04
13. \$0.11
14. \$0.08
15. \$0.14
16. \$0.04
17. \$0.11
18. \$0.18
19. \$0.15
20. \$0.14
21. 89 m
22. 117 in.
23. 72 cm
24. 36 cm
25. 83 in.
26. 30 accidents
27. 80 accidents
28. 60 accidents
- 29.

$$\begin{array}{l|l} 2 & 2, 3, 6 \\ 3 & 2, 3, 3, 8, 8 \\ 4 & 4, 5, 7 \end{array}$$

30.

$$\begin{array}{l|l} 2 & 3, 8, 9 \\ 3 & 2, 4, 4, 5, 5 \\ 4 & 5, 7, 8 \end{array}$$

31.

$$\begin{array}{l|l} 2 & 2, 4, 5 \\ 3 & 1, 1, 6, 6, 9 \\ 4 & 2, 8, 9 \\ 6 & 5 \\ 8 & 1, 3, 6, 8, 8, 9 \end{array}$$

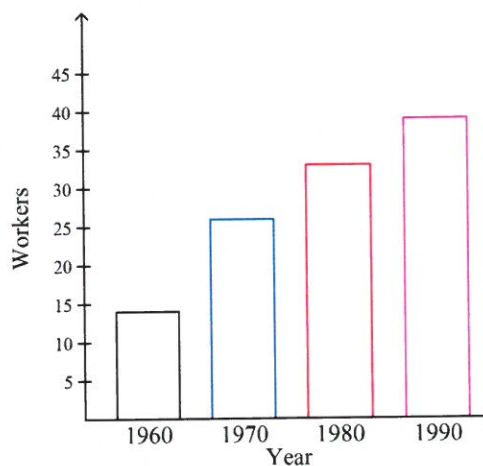
32.

$$\begin{array}{l|l} 2 & 3, 5, 8 \\ 3 & 4, 4, 6, 7, 7 \\ 4 & 5, 7, 8 \\ 6 & 8 \\ 8 & 4, 6, 6, 6, 7, 9 \end{array}$$

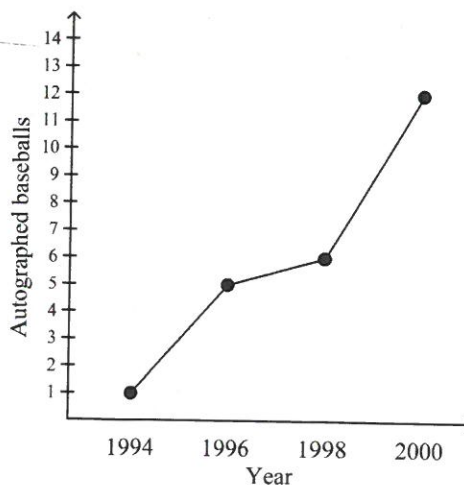
33.

$$\begin{array}{l|l} 2 & 1, 3, 6 \\ 3 & 7, 7, 8, 8, 9 \\ 4 & 3, 4, 7 \\ 6 & 9 \\ 8 & 1, 2, 2, 4, 7, 9 \end{array}$$

34.



35.



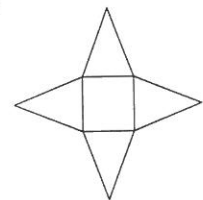
Answers to

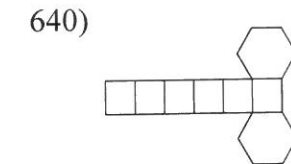
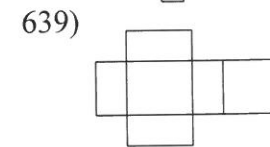
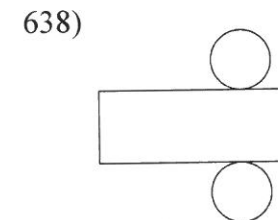
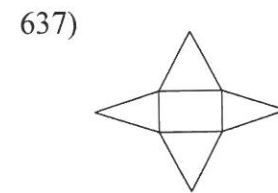
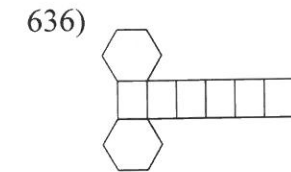
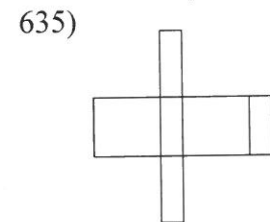
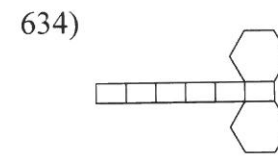
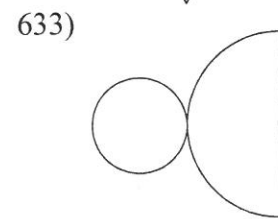
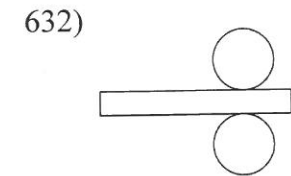
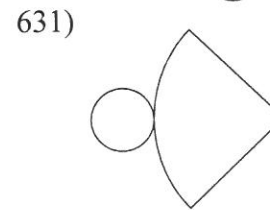
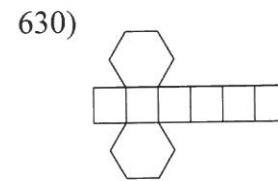
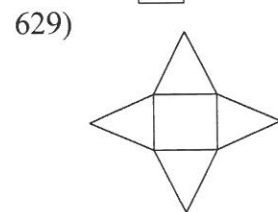
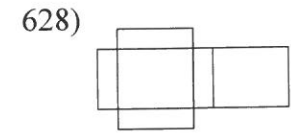
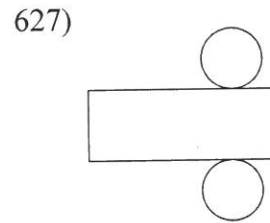
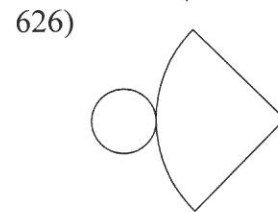
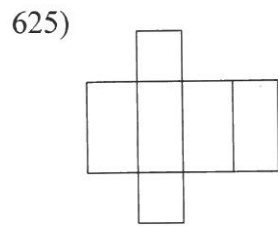
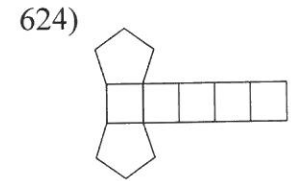
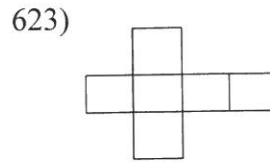
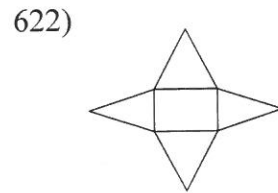
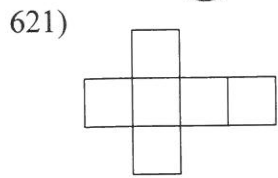
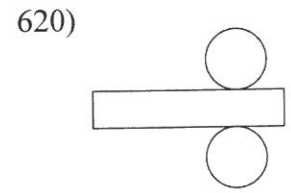
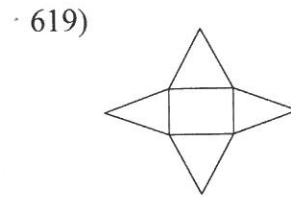
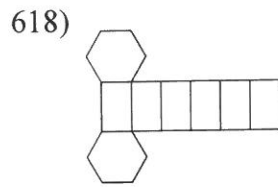
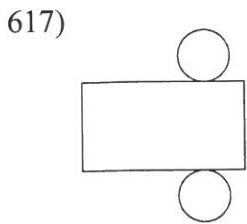
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|----------------------|----------------------|------------------------|----------------------|
| 36) 1270.875 | 37) 1972 | 38) 1386.86 | 39) 1391.2 |
| 40) 1331.8 | 41) 1361.839 | 42) 1765.72 | 43) 1912.6 |
| 44) 1157.5 | 45) 1301.58 | 46) 1837.88 | 47) 1720.392 |
| 48) 667.62 | 49) 1304 | 50) 1891.67 | 51) 2056.15 |
| 52) 1825.6 | 53) 1033.946 | 54) 840.284 | 55) 1738.4 |
| 56) $6\frac{49}{60}$ | 57) $16\frac{2}{7}$ | 58) $3\frac{55}{112}$ | 59) $\frac{1}{2}$ |
| 60) $2\frac{1}{10}$ | 61) $5\frac{19}{21}$ | 62) $6\frac{3}{10}$ | 63) $\frac{34}{63}$ |
| 64) $5\frac{31}{36}$ | 65) $12\frac{1}{6}$ | 66) $8\frac{7}{39}$ | 67) $5\frac{23}{30}$ |
| 68) $2\frac{5}{24}$ | 69) $1\frac{21}{26}$ | 70) $3\frac{6}{7}$ | 71) $12\frac{2}{15}$ |
| 72) $5\frac{2}{3}$ | 73) $1\frac{29}{52}$ | 74) $2\frac{103}{144}$ | 75) $9\frac{13}{70}$ |
| 76) 20 | 77) -28 | 78) -40 | 79) 11 |
| 80) 28 | 81) -14 | 82) 102 | 83) -9 |
| 84) -20 | 85) -151 | 86) -103 | 87) -118 |
| 88) -78 | 89) -100 | 90) -62 | 91) 8 |
| 92) -70 | 93) -15 | 94) -1 | 95) 41 |
| 96) -82 | 97) -139 | 98) -148 | 99) -49 |
| 100) -58 | 101) -90 | 102) -126 | 103) -130 |
| 104) 33 | 105) -37 | 106) 132.1 | 107) 737.4 |
| 108) 181.4 | 109) 255.5 | 110) 708.96 | 111) 844.1 |
| 112) 155.6 | 113) 2.8 | 114) 228.83 | 115) 88.7 |
| 116) 593.6 | 117) 0.3 | 118) 512.8 | 119) 603.91 |
| 120) 206.8 | 121) 305.51 | 122) 436.1 | 123) 291.368 |
| 124) 106.7 | 125) 387.737 | 126) $\frac{3}{8}$ | 127) $\frac{7}{12}$ |
| 128) $\frac{3}{4}$ | 129) $\frac{3}{20}$ | 130) $\frac{157}{182}$ | 131) $\frac{39}{10}$ |
| 132) $\frac{13}{36}$ | 133) $\frac{11}{12}$ | 134) $\frac{2}{15}$ | 135) $\frac{16}{39}$ |
| 136) $3\frac{1}{21}$ | 137) $2\frac{1}{20}$ | 138) 0 | 139) $\frac{3}{8}$ |
| 140) $2\frac{5}{12}$ | 141) $2\frac{1}{4}$ | 142) $3\frac{1}{10}$ | 143) $\frac{17}{24}$ |
| 144) $5\frac{3}{5}$ | 145) $\frac{55}{56}$ | 146) -3 | 147) 10 |
| 148) 26 | 149) -2 | 150) -26 | 151) -12 |
| 152) -19 | 153) 40 | 154) -20 | 155) 18 |
| 156) 36 | 157) -5 | 158) -35 | 159) 30 |
| 160) 1 | 161) 10 | 162) -8 | 163) -9 |
| 164) 34 | 165) 20 | 166) 3 | 167) 1 |
| 168) 13 | 169) 9 | 170) 24 | 171) 8 |

- 172) 14
 176) 347.6
 180) 72.6
 184) 77
 188) 322.5
 192) 93.24
 196) $\frac{35}{99}$
 200) $3\frac{11}{13}$
 204) $1\frac{3}{4}$
 208) $42\frac{5}{48}$
 212) $2\frac{1}{6}$
 216) 40
 220) 192
 224) 108
 228) 135
 232) 98
 236) 48
 240) 144
 244) 361
 248) 2.51399491094
 252) 1.58581235698
 256) 0.986217457887
 260) 0.039430449069
 264) 1.20096990444
 268) $\frac{34}{143}$
 272) $4\frac{1}{2}$
 276) $\frac{7}{117}$
 280) $\frac{39}{188}$
 284) $8\frac{2}{5}$
 288) 15
 292) 12
 296) 2
 300) 8
 304) 8
 308) -16
- 173) -28
 177) 1104.048
 181) 413.96
 185) 2.14
 189) 1291.5
 193) 1859.28
 197) $17\frac{5}{11}$
 201) $5\frac{13}{45}$
 205) 5
 209) $1\frac{17}{128}$
 213) $5\frac{13}{15}$
 217) 81
 221) 70
 225) 288
 229) 84
 233) -240
 237) 12
 241) 32
 245) 6
 249) 0.184579976985
 253) 2.23846153846
 257) 2.43333333333
 261) 0.355169692186
 265) 0.959791666667
 269) $\frac{4}{9}$
 273) $1\frac{73}{180}$
 277) $\frac{162}{371}$
 281) 24
 285) $2\frac{17}{24}$
 289) -12
 293) -2
 297) -18
 301) 6
 305) -12
 309) -19
- 174) 21
 178) 141.695
 182) 459.52
 186) 51.03
 190) 69.52
 194) 717.2127
 198) $8\frac{2}{9}$
 202) $8\frac{5}{32}$
 206) 20
 210) $\frac{3}{5}$
 214) $7\frac{2}{3}$
 218) -272
 222) 216
 226) -361
 230) -380
 234) -304
 238) -16
 242) 72
 246) 0.774530271399
 250) 0.316336633663
 254) 1.10201296486
 258) 447
 262) 0.371179039301
 266) $\frac{77}{324}$
 270) $1\frac{3}{25}$
 274) $\frac{247}{1400}$
 278) $12\frac{1}{3}$
 282) $2\frac{3}{10}$
 286) -4
 290) -8
 294) -6
 298) 12
 302) -19
 306) 19
 310) -15
- 175) 33
 179) 23.1
 183) 1019.64
 187) 217.69
 191) 267.75
 195) 906.53
 199) $\frac{1}{12}$
 203) $1\frac{1}{8}$
 207) $1\frac{1}{112}$
 211) $8\frac{1}{5}$
 215) $11\frac{7}{10}$
 219) -12
 223) 132
 227) 16
 231) 99
 235) 252
 239) 16
 243) 204
 247) 0.894252873563
 251) 0.717079530639
 255) 1.944971537
 259) 5.69714285714
 263) 1.36504297994
 267) 2
 271) $\frac{40}{201}$
 275) $11\frac{2}{3}$
 279) $\frac{35}{204}$
 283) $3\frac{97}{221}$
 287) -6
 291) 2
 295) 19
 299) 4
 303) -10
 307) -16
 311) -2

- 312) 2 313) -8 314) -8 315) -12
316) 79 317) 1 318) 27 319) 4
320) 11 321) 165 322) 8 323) 19
324) 10 325) 6 326) 180 327) 18
328) 19 329) 18 330) 165 331) 3
332) 22 333) 108 334) 13 335) 4
336) $2 + n$ 337) $10n$ 338) $\frac{42}{7}$ 339) $n - 7$
- 340) $n \cdot 11 = 31$ 341) $q - 9 = 46$ 342) $n + 11 = 13$ 343) $n + 7 = 20$
344) $12 + 8$ 345) $n - 6 = 45$ 346) the product of 5 and 6
347) 14 less than n is 47 348) 23 less than p 349) the sum of a number and 9 is 19
350) 7 more than 4 351) the quotient of a number and 7 is equal to 34
352) a number decreased by 12 is equal to 33 353) 6 more than 10
354) the quotient of 50 and a number 355) 12 decreased by 9 356) {3}
357) {15} 358) {5} 359) {27} 360) {20}
361) {4} 362) {12} 363) {17} 364) {18}
365) {26} 366) {140} 367) {300} 368) {132}
369) {21} 370) {280} 371) {12} 372) {3}
373) {17} 374) {20} 375) {7} 376) 10
377) 4 378) 6 379) 6 380) 3
381) 1 382) 8 383) 5 384) 2
385) 10 386) 180 387) 198 388) 66
389) 126 390) 98 391) 72 392) 360
393) 120 394) 4180 395) 300 396) $3\frac{9}{10}$
- 397) $1\frac{1}{8}$ 398) $\frac{3}{100}$ 399) $4\frac{3}{4}$ 400) $2\frac{1}{4}$
401) $\frac{2}{5}$ 402) $\frac{1}{4}$ 403) $7\frac{333}{1000}$ 404) $\frac{1}{2}$
405) $\frac{1}{125}$ 406) $\frac{2}{25}$ 407) $\frac{1}{4}$ 408) $\frac{18}{25}$
409) $\frac{1}{10}$ 410) $\frac{91}{100}$ 411) $\frac{17}{25}$ 412) $\frac{9}{50}$
413) $\frac{1}{100}$ 414) $\frac{3}{20}$ 415) $\frac{3}{5}$ 416) $\frac{47}{100}$
417) $\frac{1}{2}$ 418) $\frac{81}{100}$ 419) $\frac{19}{50}$ 420) $\frac{3}{25}$
421) $\frac{2}{5}$ 422) $\frac{11}{25}$ 423) $\frac{89}{100}$ 424) $\frac{14}{25}$
425) $\frac{9}{10}$ 426) 1.3 427) 0.006 428) 0.75
- 429) 0.003 430) 6.3 431) 4.03 432) 0.4
433) 0.2 434) 0.05 435) 0.005 436) 0.02
437) 0.004 438) 0.728 439) 0.896 440) 0.26
441) 0.03 442) 0.43 443) 0.62 444) 0.007
445) 0.009 446) 0.13 447) 0.79 448) 0.54
449) 0.73 450) 0.003 451) 0.09 452) 0.005

- | | | | |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 453) $0.\overline{008}$ | 454) $0.\overline{48}$ | 455) $0.\overline{98}$ | 456) $0.\overline{6}$ |
| 457) $0.\overline{15}$ | 458) $7.\overline{6}$ | 459) $0.\overline{93}$ | 460) $1.\overline{6}$ |
| 461) $0.\overline{003}$ | 462) 0.48 | 463) $0.\overline{3}$ | 464) 0.006 |
| 465) 0.39 | 466) 162° | 467) 126° | 468) 148° |
| 469) 122° | 470) 158° | 471) 139° | 472) 15° |
| 473) 145° | 474) 168° | 475) 132° | 476) linear pair |
| 477) complementary | 478) adjacent | 479) vertical | 480) vertical |
| 481) linear pair | 482) complementary | 483) complementary | 484) adjacent |
| 485) complementary | 486) adjacent | 487) complementary | 488) complementary |
| 489) vertical | 490) linear pair | 491) complementary | 492) linear pair |
| 493) adjacent | 494) vertical | 495) linear pair | 496) hexagon |
| 497) hexagon | 498) nonagon | 499) octagon | 500) nonagon |
| 501) decagon | 502) hexagon | 503) heptagon | 504) heptagon |
| 505) decagon | 506) decagon | 507) hexagon | 508) hexagon |
| 509) nonagon | 510) nonagon | 511) quadrilateral | 512) hexagon |
| 513) nonagon | 514) hexagon | 515) decagon | 516) acute scalene |
| 517) equilateral | 518) obtuse isosceles | 519) right isosceles | 520) obtuse scalene |
| 521) obtuse isosceles | 522) right isosceles | 523) equilateral | 524) acute isosceles |
| 525) obtuse scalene | 526) right scalene | 527) acute scalene | 528) acute scalene |
| 529) right isosceles | 530) acute scalene | 531) acute isosceles | 532) right scalene |
| 533) obtuse scalene | 534) obtuse isosceles | 535) equilateral | 536) rectangle |
| 537) parallelogram | 538) square | 539) parallelogram | 540) square |
| 541) trapezoid | 542) parallelogram | 543) parallelogram | 544) trapezoid |
| 545) quadrilateral | 546) rhombus | 547) square | 548) trapezoid |
| 549) rectangle | 550) rhombus | 551) rhombus | 552) rhombus |
| 553) trapezoid | 554) square | 555) quadrilateral | 556) 18π ft |
| 557) 190π mi | 558) 26π cm | 559) 184π in | 560) 172π ft |
| 561) 198π km | 562) 178π cm | 563) 6π yd | 564) 12π km |
| 565) 32π ft | 566) 46π in | 567) 72π m | 568) 58π km |
| 569) 78π ft | 570) 38π mi | 571) 90π ft | 572) 52π mi |
| 573) 98π mi | 574) 84π cm | 575) 64π yd | 576) 49π cm ² |
| 577) 100π in ² | 578) 2116π yd ² | 579) 2401π m ² | 580) 9π in ² |
| 581) 169π mi ² | 582) 256π km ² | 583) 1296π km ² | 584) 1521π mi ² |
| 585) 1764π m ² | 586) 2116π km ² | 587) 400π yd ² | 588) 841π m ² |
| 589) 1764π yd ² | 590) 1521π in ² | 591) 1296π mi ² | 592) 1089π in ² |
| 593) 529π m ² | 594) 2401π yd ² | 595) 676π ft ² | 596) 42 in ² |
| 597) 6.45 mi ² | 598) 22.5 km ² | 599) 79.21 in ² | 600) 43.5 mi ² |
| 601) 10.89 cm ² | 602) 58.8 ft ² | 603) 54.5 mi ² | 604) 3.8 in ² |
| 605) 130.9 yd ² | 606) 121 ft ² | 607) 13.6 ft ² | 608) 14.5 mi ² |
| 609) 7.4 in ² | 610) 59.2 m ² | 611) 14 cm ² | 612) 33 mi ² |
| 613) 68.6 in ² | 614) 20.8 yd ² | 615) 36 km ² | 616) |





641) $D(9, 4)$ $E(2, 3)$ $F(-9, -4)$
 $G(-3, 2)$ $H(9, 10)$ $I(-10, 2)$
 $J(-8, -7)$ $K(-4, 4)$ $L(9, -1)$
 $M(-3, 3)$

643) $A(-3, 0)$ $B(10, -6)$ $C(-6, 1)$
 $D(1, -8)$ $E(8, 6)$ $F(-9, -3)$
 $G(-9, -5)$ $H(-5, -1)$ $I(-3, 7)$
 $J(-8, -5)$

645) $C(2, -3)$ $D(-4, 8)$ $E(6, 7)$
 $F(1, -8)$ $G(7, 0)$ $H(-5, 6)$
 $I(0, 3)$ $J(9, -10)$ $K(9, 7)$
 $L(-1, -10)$

647) $C(2, -5)$ $D(-6, -8)$ $E(8, -8)$
 $F(4, -1)$ $G(-7, -1)$ $H(8, 8)$
 $I(7, -10)$ $J(10, 6)$ $K(7, -6)$
 $L(-2, 7)$

642) $B(0, 4)$ $C(-2, 9)$ $D(-2, 2)$
 $E(2, 7)$ $F(-8, -5)$ $G(-6, 10)$
 $H(0, 6)$ $I(0, -9)$ $J(-5, -8)$
 $K(-10, -8)$

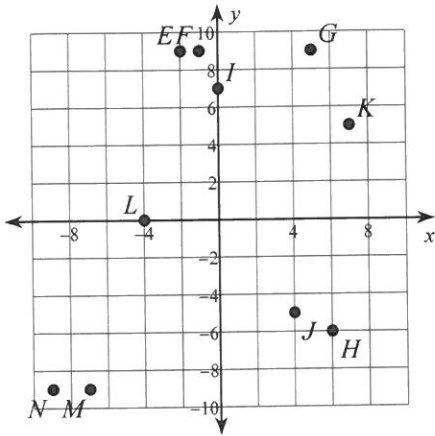
644) $K(1, -3)$ $J(10, 9)$ $I(-5, -2)$
 $H(4, 10)$ $G(-9, -9)$ $F(-10, 1)$
 $E(-7, 9)$ $D(-7, 4)$ $C(-9, -2)$
 $B(-9, -8)$

646) $B(9, -3)$ $C(-10, -6)$ $D(2, -7)$
 $E(-7, 3)$ $F(-1, -5)$ $G(-7, 6)$
 $H(4, 7)$ $I(-5, -3)$ $J(9, 3)$
 $K(3, -9)$

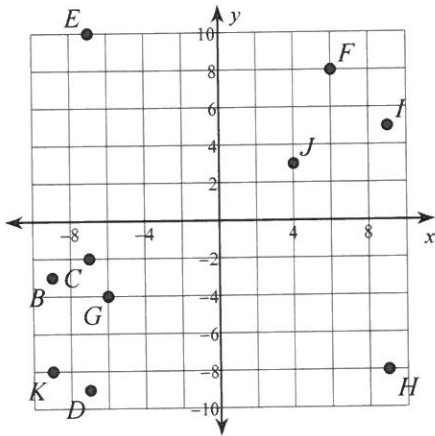
648) $M(7, -7)$ $L(10, -2)$ $K(6, 6)$
 $J(5, -10)$ $I(10, 5)$ $H(10, -6)$
 $G(4, 3)$ $F(4, -8)$ $E(-6, 10)$
 $D(9, 7)$

- 649) $C(4, -2)$ $D(8, -1)$ $E(-6, 7)$
 $F(-4, 2)$ $G(-9, 1)$ $H(-1, -6)$
 $I(3, -3)$ $J(0, 7)$ $K(-7, 8)$
 $L(-8, -9)$

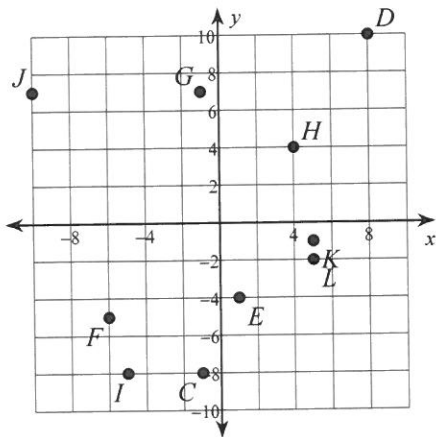
651)



653)

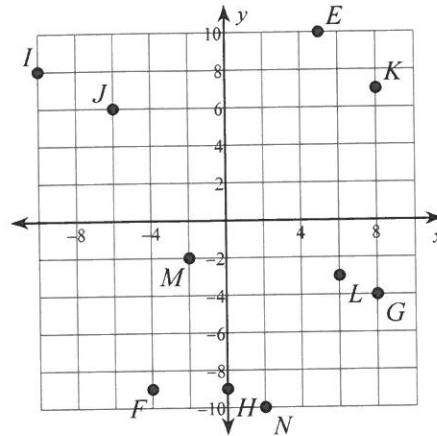


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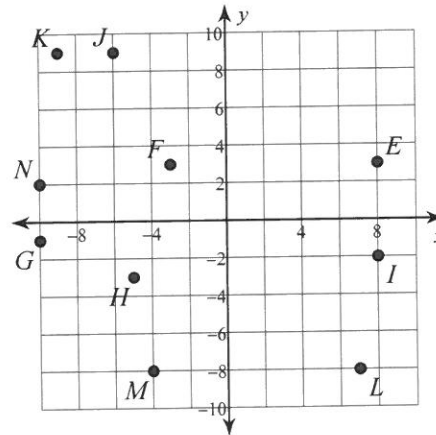


- 650) $A(-9, 8)$ $B(-1, 7)$ $C(0, 1)$
 $D(-9, -7)$ $E(5, -3)$ $F(0, 8)$
 $G(-9, 0)$ $H(3, -10)$ $I(-5, 9)$
 $J(9, -2)$

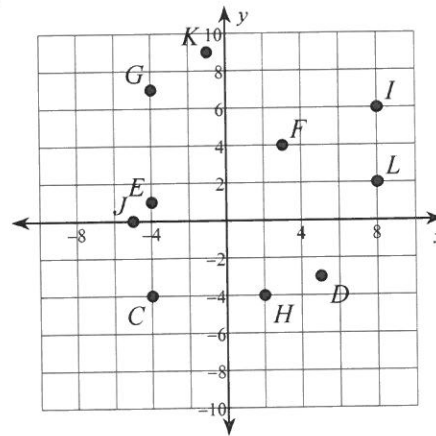
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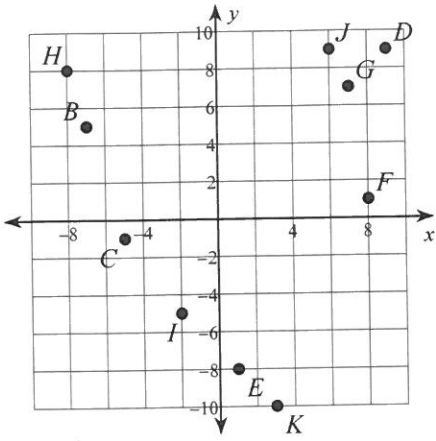
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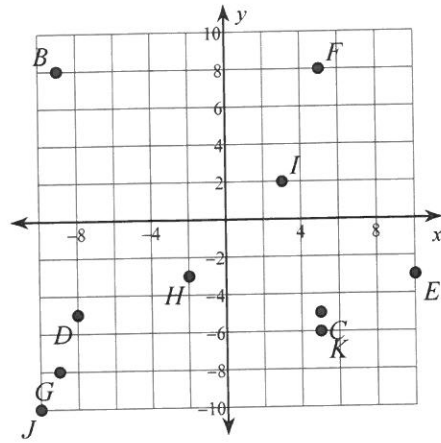
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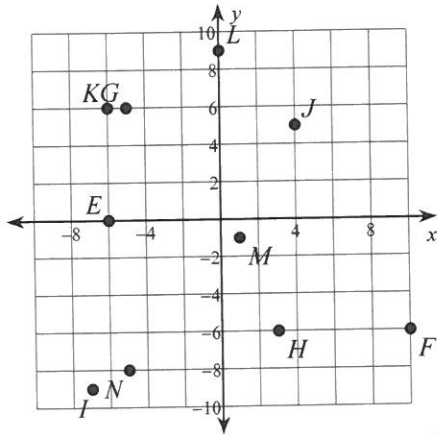
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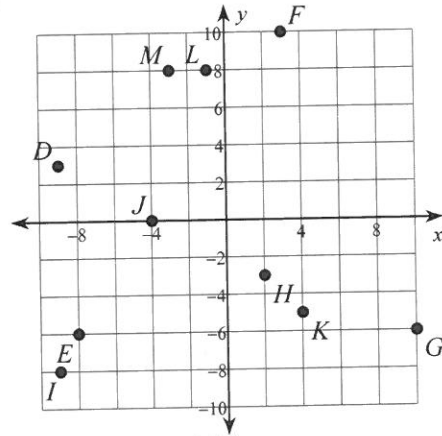
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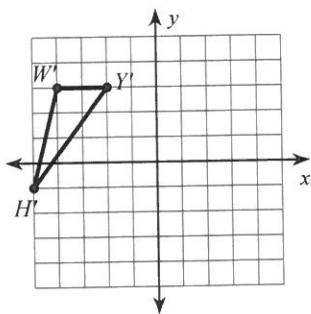
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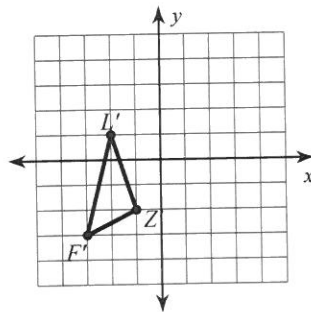
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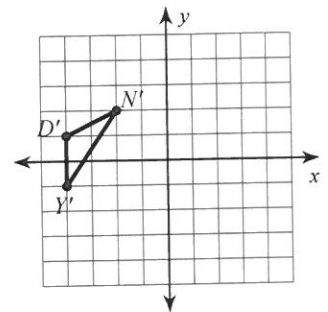
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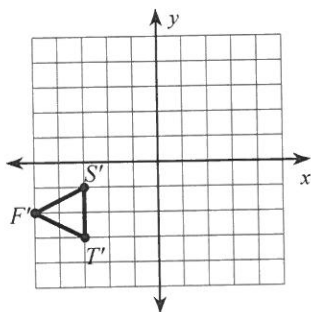
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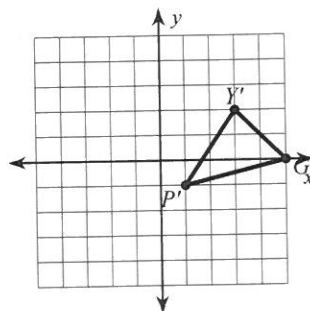
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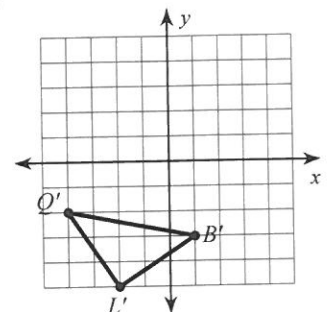
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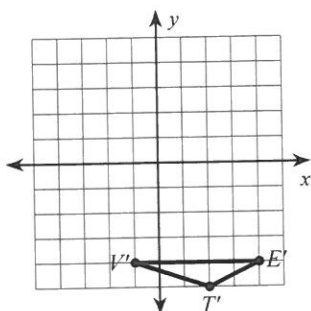
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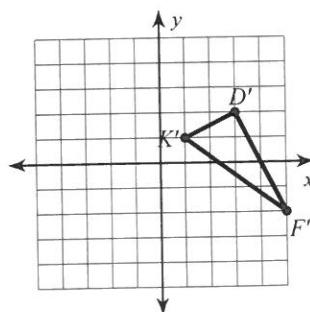
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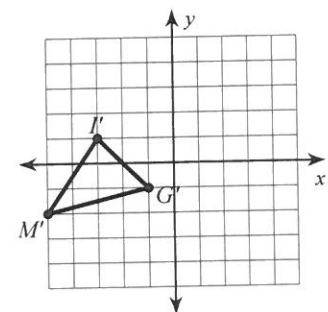
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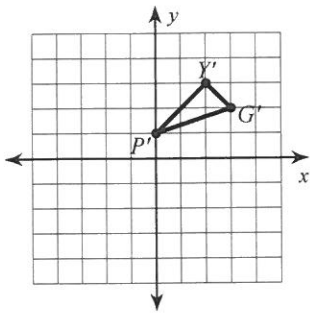
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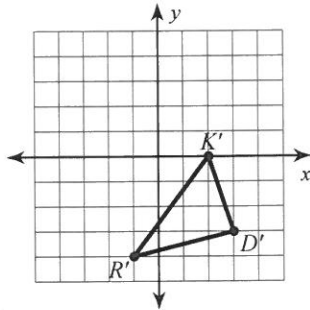
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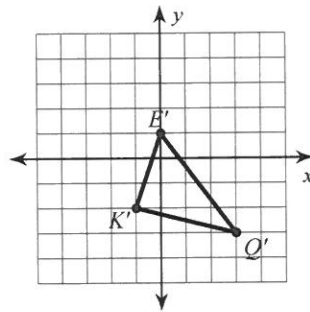
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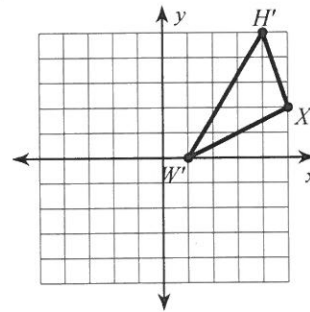
673)



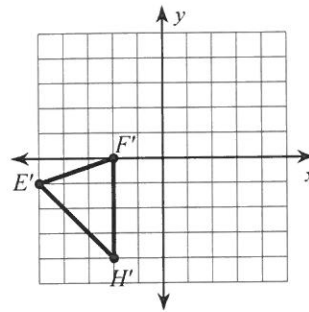
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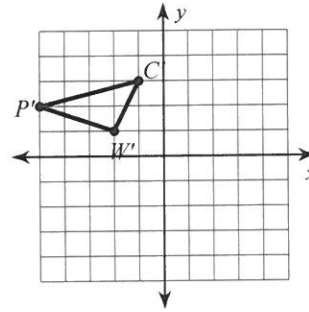
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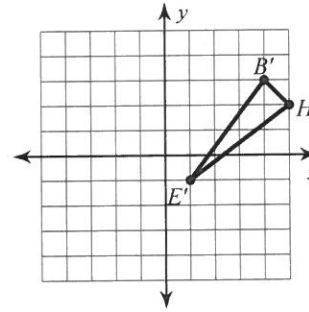
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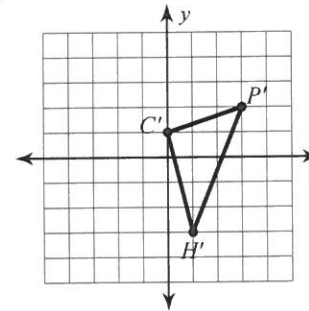
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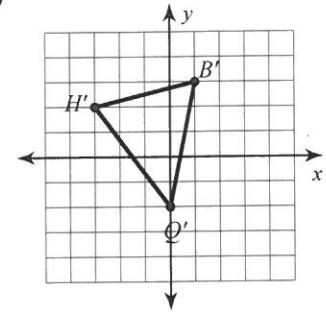
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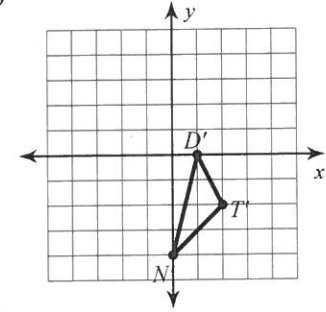
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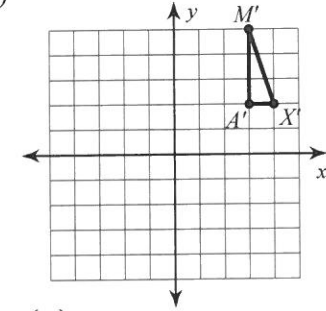
672)



675)



678)



681) {4}

682) $\left\{\frac{5}{16}\right\}$

686) $\left\{\frac{6}{7}\right\}$

690) $\left\{2\frac{4}{5}\right\}$

694) $\left\{\frac{9}{35}\right\}$

698) {24}

702) 1%

706) 0%

710) 650%

714) 25%

683) {9}

687) {5}

691) {4}

695) $\left\{1\frac{10}{11}\right\}$

699) $\left\{3\frac{1}{2}\right\}$

703) 789%

707) 40%

711) 310%

715) 50%

684) $\left\{\frac{10}{13}\right\}$

688) {6}

692) {28}

696) $\left\{7\frac{3}{7}\right\}$

700) $\left\{\frac{2}{3}\right\}$

704) 23%

708) 2%

712) 60%

716) 19%

685) {26}

689) {4}

693) $\left\{\frac{4}{9}\right\}$

697) $\left\{2\frac{1}{7}\right\}$

701) 12%

705) 1%

709) 70%

713) 75%

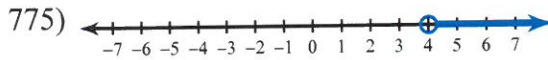
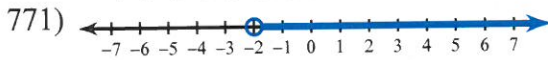
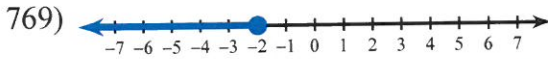
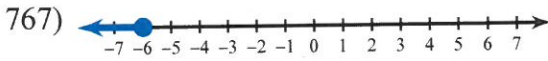
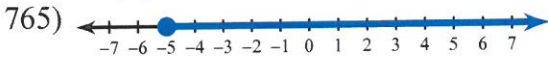
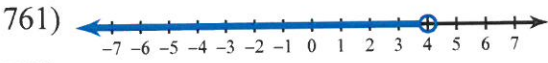
717) 21%

- 718) 85%
- 722) 93%
- 726) 13%
- 730) 32%
- 734) 53%
- 738) 25%
- 742) 31.4
- 746) 13.4
- 750) 105.3
- 754) 35.5
- 758) 9

- 719) 970%
- 723) 21%
- 727) 60%
- 731) 50%
- 735) 9%
- 739) 15%
- 743) 6.6
- 747) 4.1
- 751) 121.3
- 755) 20.1
- 759) 35.8

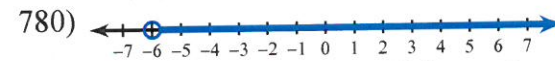
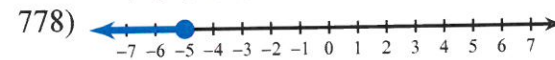
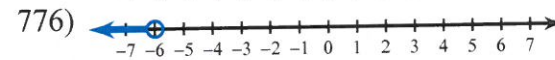
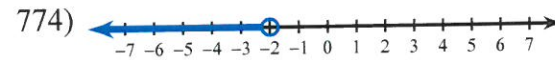
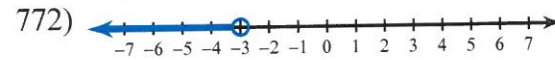
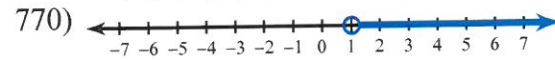
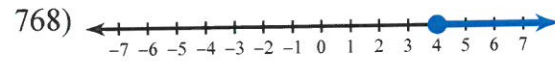
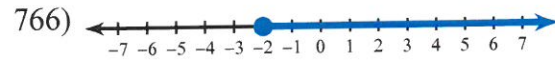
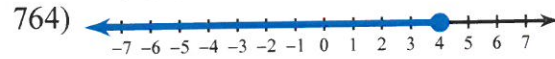
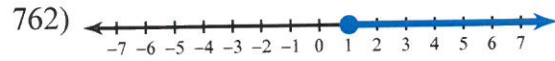
- 720) 88%
- 724) 4%
- 728) 20%
- 732) 80%
- 736) 44%
- 740) 52%
- 744) 6.4
- 748) 3.8
- 752) 1.96
- 756) 30.7
- 760) 18.8

- 721) 1%
- 725) 69%
- 729) 75%
- 733) 31%
- 737) 76%
- 741) 44.2
- 745) 0.43
- 749) 56.7
- 753) 4.7
- 757) 25.6



- 781) $m < 1$
- 785) $n < -2$
- 789) $x \leq -2$
- 793) $x \geq -5$
- 797) $b > 4$

- 782) $x > -5$
- 786) $m < 4$
- 790) $k \geq 5$
- 794) $x > -2$
- 798) $n \geq 2$



- 783) $x \geq -2$
- 787) $n \geq 1$
- 791) $a > 5$
- 795) $n \leq 1$
- 799) $p < -5$

- 784) $n \leq 2$
- 788) $b < 5$
- 792) $b > 1$
- 796) $x \leq -5$
- 800) $v \leq 5$

Answer Key

- | | | |
|--------------------------|-------------------------|-------------------|
| 801. 180 in. | 833. 6.85 m | 873. 98 |
| 802. 252 in. | 834. 3.49 m | 874. 66 |
| 803. 216 in. | 835. 3.95 m | 875. 20 |
| 804. 396 in. | 836. 3.1 m | 876. 325,000 |
| 805. 360 in. | 837. 8.1 m | 877. 2,950,000 |
| 806. 288 in. | 838. 9.72 m | 878. 1,484,000 |
| 807. 108 in. | 839. 5.01 m | 879. 770,000 |
| 808. 144 in. | 840. 4.59 m | 880. 1,992,000 |
| 809. 324 in. | 841. 9 gal | 881. 11 ft 6 in |
| 810. 72 in. | 842. 3 gal | 882. 12 ft 4 in |
| 811. $1\frac{1}{6}$ ft | 843. 10 pt | 883. 14 ft 2 in |
| 812. $2\frac{5}{12}$ ft | 844. 7 gal | 884. 18 ft 7 in |
| 813. $1\frac{1}{3}$ ft | 845. 6 pt | 885. 24 ft 7 in |
| 814. $1\frac{5}{12}$ ft | 846. $6\frac{1}{2}$ qt | 886. 19 ft 9 in |
| 815. $1\frac{11}{12}$ ft | 847. $2\frac{1}{8}$ gal | 887. 21 ft 5 in |
| 816. $1\frac{2}{3}$ ft | 848. 2 gal | 888. 12 ft 6 in |
| 817. $2\frac{1}{12}$ ft | 849. $5\frac{1}{2}$ qt | 889. 20 ft 7 in |
| 818. $\frac{1}{2}$ ft | 850. 3 qt | 890. 13 ft 7 in |
| 819. $\frac{3}{4}$ ft | 851. 32,000 | 891. 13 lb 2 oz |
| 820. $2\frac{1}{2}$ ft | 852. 30,000 | 892. 9 lb 3 oz |
| 821. 60 mm | 853. 50,000 | 893. 10 lb 14 oz |
| 822. 5,000 m | 854. 34,000 | 894. 20 lb 3 oz |
| 823. 3,000 mm | 855. 18,000 | 895. 7 lb 11 oz |
| 824. 100 cm | 856. 4,000 L | 896. 19 lb 5 oz |
| 825. 20 mm | 857. 7,000 L | 897. 15 lb 3 oz |
| 826. 4,000 m | 858. 9,000 L | 898. 11 lb 10 oz |
| 827. 800 cm | 859. 3,000 L | 899. 16 lb 15 oz |
| 828. 7,000 mm | 860. 12,000 L | 900. 25 lb 13 oz |
| 829. 600 cm | 861. 3 lb | 901. 6 ft 11 in. |
| 830. 50 mm | 862. 10 lb | 902. 6 ft 11 in. |
| 831. 4.65 m | 863. 12 lb | 903. 11 ft 9 in. |
| 832. 6.39 m | 864. 9 lb | 904. 10 ft 11 in. |
| | 865. 8 lb | 905. 1 ft 11 in. |
| | 866. 8,000 lbs | 906. 6 ft 6 in. |
| | 867. 14,000 lbs | 907. 9 ft 11 in. |
| | 868. 12,000 lbs | 908. 8 ft 5 in. |
| | 869. 6,000 lbs | 909. 7 ft 11 in. |
| | 870. 10,000 lbs | 910. 9 ft 10 in. |
| | 871. 18 | |
| | 872. 49 | |