

5th Grade Math
Study Guide Final

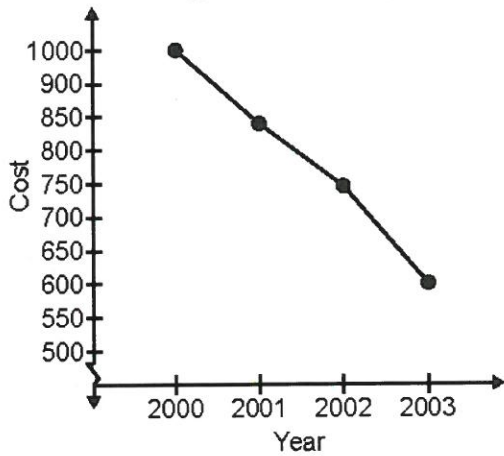
Name: _____

Date: _____

Convert.

1. Find the range, mean, median, and mode of the following data set.
5, 17, 21, 21, 7, 13, 1, 3
2. Find the range, mean, median, and mode of the following data set.
10, 3, 13, 7, 9, 8, 8, 20
3. Find the range, mean, median, and mode of the following data set.
14, 19, 19, 12, 2, 1, 15, 22, 22
4. Find the range, mean, median, and mode of the following data set.
25, 21, 13, 5, 4, 8, 14, 13
5. Find the range, mean, median, and mode of the following data set.
10, 8, 20, 16, 3, 4, 16
6. Find the range, mean, median, and mode of the following data set.
21, 7, 4, 11, 19, 7, 18, 3
7. Find the range, mean, median, and mode of the following data set.
7, 21, 12, 3, 21, 10, 21
8. Find the range, mean, median, and mode of the following data set.
7, 19, 8, 3, 12, 4, 21
9. Find the range, mean, median, and mode of the following data set.
18, 14, 3, 24, 15, 21, 22, 3, 18
10. Find the range, mean, median, and mode of the following data set.
15, 22, 14, 1, 19, 22, 14, 22

Graph 6-7.2
Average Cost of Computers



11. According to Graph 6-7.2, which year has been the most expensive for computers so far?

12. According to Graph 6-7.2, how much did the total price of computers drop from 2002 to 2003?

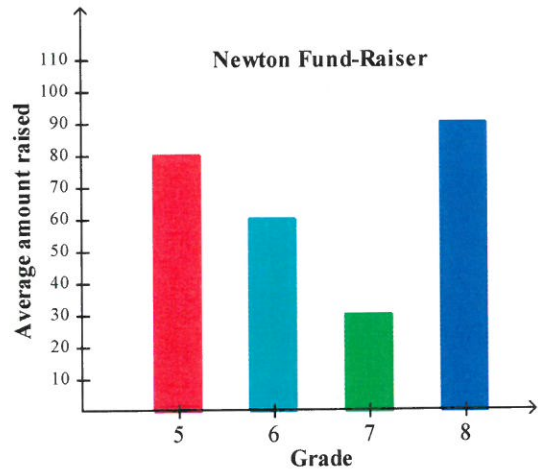
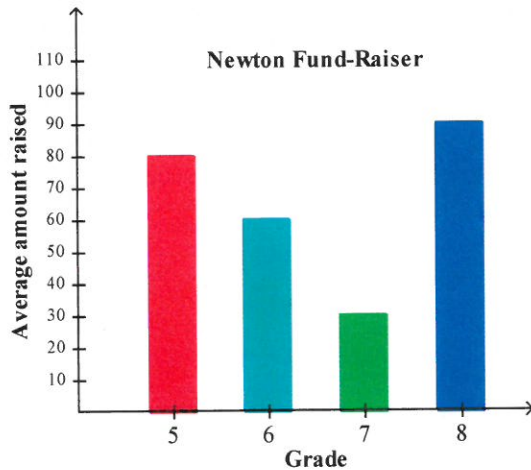
13. According to Graph 6-7.2, what was the average price of a computer in 2001?

14. Newton School district sold candy in grades 5 – 8 as a fund-raiser. The bar graph shows the average amount of money raised per student in each grade.

- Which grade raised the most money?
- Which grade raised the least money?

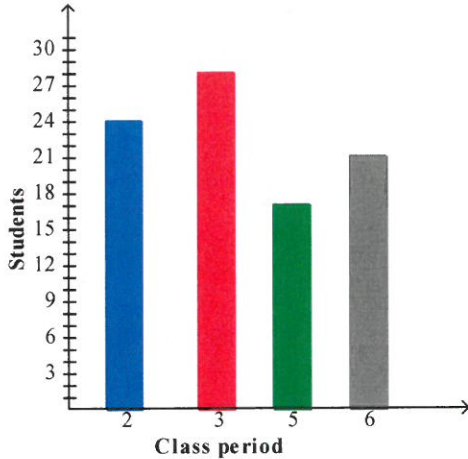
15. Newton School district sold candy in grades 5 – 8 as a fund-raiser. The bar graph shows the average amount of money raised per student in each grade.

- How much more money was raised by the 5th grade than the 7th grade?
- How much more money was raised by the 8th grade than the 6th grade?



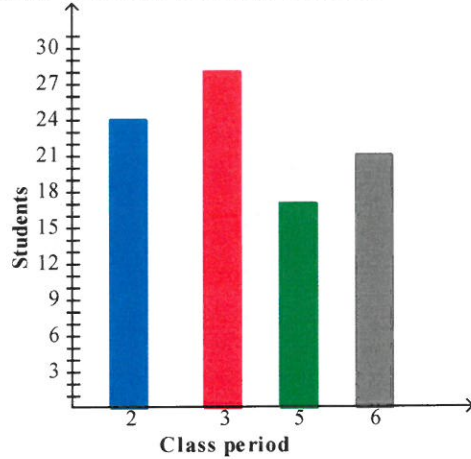
16. Mr. Gleeson teaches 4 math classes. According to the graph below, which class period has the most students?

Mr. Gleeson's Math Classes

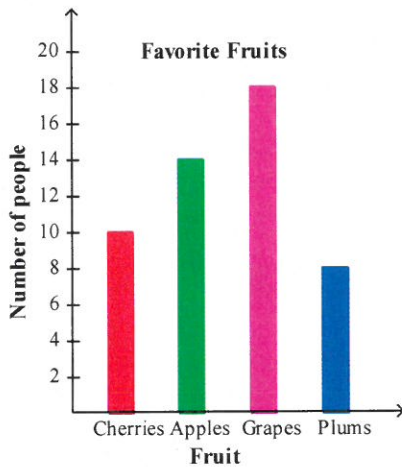


17. Mr. Gleeson teaches 4 math classes. According to the graph below, which class period has the least students?

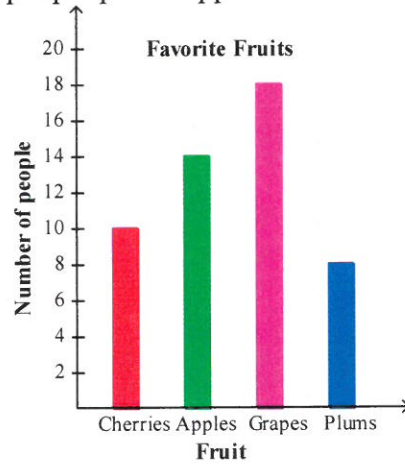
Mr. Gleeson's Math Classes



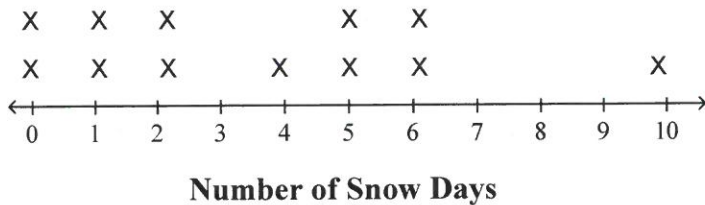
18. In a recent food study, 50 people were asked what fruit they like the best. Below is a graph showing the results. How many people prefer grapes?



19. In a recent food study, 50 people were asked what fruit they like the best. Below is a graph showing the results. How many more people prefer apples than cherries?



20. Identify the gap(s), cluster(s), and outlier in the data set shown below.



Convert.

21. 7 feet = ___ inches

22. 5 feet = ___ inches

23. 6 feet = ___ inches

24. 9 feet = ___ inches

25. 3 feet = ___ inches

26. 2 feet = ___ inches

27. 4 feet = ___ inches

28. 8 feet = ___ inches

29. 7 feet = ___ inches

30. 5 feet = ___ inches

31. 15 feet = ___ yards

32. 30 feet = ___ yards

33. 18 feet = ___ yards

34. 6 feet = ___ yards

35. 9 feet = ___ yards

36. 12 feet = ___ yards

37. 27 feet = ___ yards

38. 21 feet = ___ yards

39. 24 feet = ___ yards

40. 18 feet = ___ yards

41. 8 yards = ___ inches

42. 3 yards = ___ inches

43. 4 yards = ___ inches

44. 5 yards = ___ inches

45. 2 yards = ___ inches

46. 6 yards = ___ inches

47. 9 yards = ___ inches

48. 12 yards = ___ inches

49. 10 yards = ___ inches

50. 7 yards = ___ inches

51. 10 yards = ___ feet

52. 3 yards = ___ feet

53. 4 yards = ___ feet

54. 7 yards = ___ feet

55. 12 yards = ___ feet

56. 2 yards = ___ feet

57. 9 yards = ___ feet

58. 11 yards = ___ feet

59. 5 yards = ___ feet

60. 8 yards = ___ feet

61. 3,300 cm = ___ m

62. 5,100 cm = ___ m

63. 4,300 cm = ___ m

64. 7,600 cm = ___ m

65. 700 cm = ___ m

66. 4,800 cm = ___ m

67. 6,500 cm = ___ m

68. 2,300 cm = ___ m

69. 4,700 cm = ___ m

70. 2,100 cm = ___ m

71. 8 km = ___ m

72. 9 km = ___ m

73. 4 km = ___ m

74. 5 km = ___ m

75. 7 km = ___ m

76. 6 km = ___ m

77. 10 km = ___ m

78. 11 km = ___ m

79. 12 km = ___ m

80. 2 km = ___ m

81. 4 tons to pounds.
82. 6 tons to pounds.
83. 9 tons to pounds.
84. 8 tons to pounds.
85. 12 tons to pounds.
86. 7 tons to pounds.
87. 3 tons to pounds.
88. 5 tons to pounds.
89. 11 tons to pounds.
90. 2 tons to pounds.
91. 48 ounces to pounds.
92. 160 ounces to pounds.
93. 192 ounces to pounds.
94. 144 ounces to pounds.
95. 128 ounces to pounds.
96. 112 ounces to pounds.
97. 64 ounces to pounds.
98. 176 ounces to pounds.
99. 96 ounces to pounds.
100. 80 ounces to pounds.
101. 7 kg = ___ g
102. 9 kg = ___ g
103. 10 kg = ___ g
104. 3 kg = ___ g
105. 4 kg = ___ g
106. 12 kg = ___ g
107. 11 kg = ___ g
108. 2 kg = ___ g
109. 6 kg = ___ g
110. 5 kg = ___ g
111. 9,000 mg = ___ g
112. 4,000 mg = ___ g
113. 7,000 mg = ___ g
114. 2,000 mg = ___ g
115. 14,000 mg = ___ g
116. 3,000 mg = ___ g
117. 11,000 mg = ___ g
118. 10,000 mg = ___ g
119. 6,000 mg = ___ g
120. 15,000 mg = ___ g
121. 18,000 g = ___ kg
122. 49,000 g = ___ kg
123. 98,000 g = ___ kg
124. 66,000 g = ___ kg
125. 20,000 g = ___ kg
126. 5,000 g = ___ kg
127. 31,000 g = ___ kg
128. 46,000 g = ___ kg
129. 77,000 g = ___ kg
130. 36,000 g = ___ kg
131. 325 g = ___ mg
132. 2,950 g = ___ mg
133. 1,484 g = ___ mg
134. 770 g = ___ mg
135. 1,992 g = ___ mg
136. 566 g = ___ mg
137. 1,948 g = ___ mg
138. 1,270 g = ___ mg
139. 305 g = ___ mg
140. 2,103 g = ___ mg
141. 36 quarts to gallons.
142. 12 quarts to gallons.
143. 5 quarts to pints.
144. 28 quarts to gallons.
145. 3 quarts to pints.

146. 9 quarts to pints.

147. 7 quarts to pints.

148. 20 quarts to gallons.

149. 36 quarts to gallons.

150. 12 quarts to gallons.

151. 26 cups to quarts.

152. 17 pints to gallons.

153. 16 pints to gallons.

154. 22 cups to quarts.

155. 12 cups to quarts.

156. 19 pints to gallons.

157. 11 pints to gallons.

158. 18 cups to quarts.

159. 21 cups to quarts.

160. 14 pints to gallons.

161. 4,450,000 mL = ___ L

162. 6,830 mL = ___ L

163. 904,000 mL = ___ L

164. 30,200 mL = ___ L

165. 64,700 mL = ___ L

166. 4,580 mL = ___ L

167. 564,000 mL = ___ L

168. 6,720,000 mL = ___ L

169. 2,730 mL = ___ L

170. 9,440,000 mL = ___ L

171. 32 L = ___ mL

172. 30 L = ___ mL

173. 50 L = ___ mL

174. 34 L = ___ mL

175. 18 L = ___ mL

176. 39 L = ___ mL

177. 26 L = ___ mL

178. 43 L = ___ mL

179. 46 L = ___ mL

180. 16 L = ___ mL

Solve for the time.

181. 7 hours after 3:00 p.m.

184. 5 hours after 5:00 p.m.

187. 7 hours before 4:00 p.m.

182. 9 hours before 9:00 a.m.

185. 4 hours before 10:00 a.m.

188. 9 hours before 8:00 a.m.

183. 8 hours before 1:00 a.m.

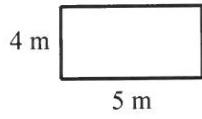
186. 3 hours after 6:00 a.m.

189. 8 hours after 12:00 noon

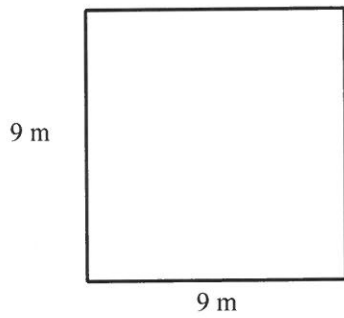
190. 5 hours before 2:00 p.m.

Find the Perimeter.

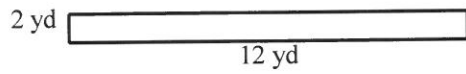
191.



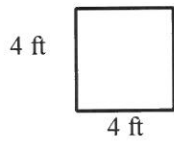
192.



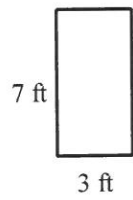
193.



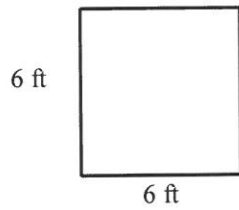
194.



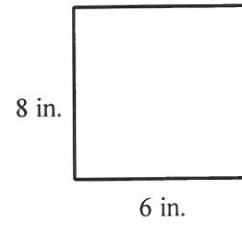
195.



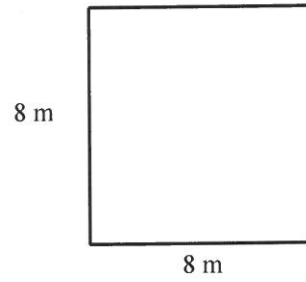
196.



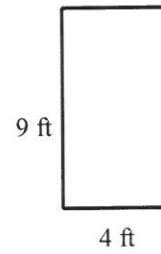
197.



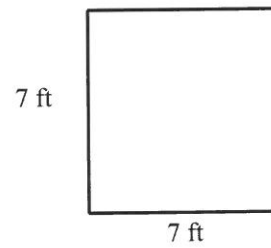
198.



199.

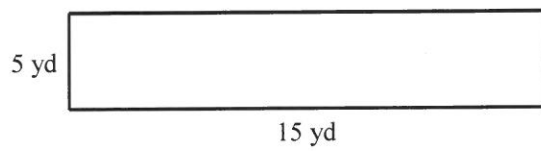


200.

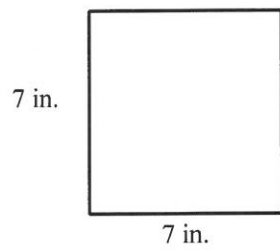


Find the Area.

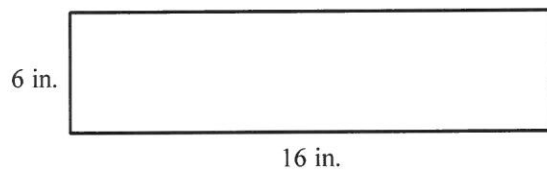
201.



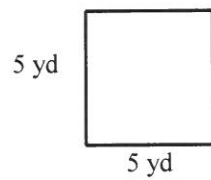
202.



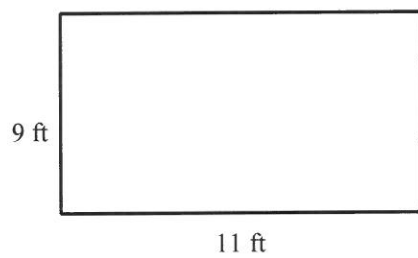
203.



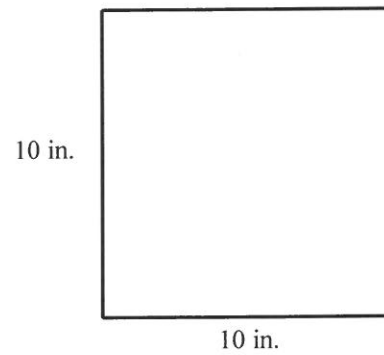
204.



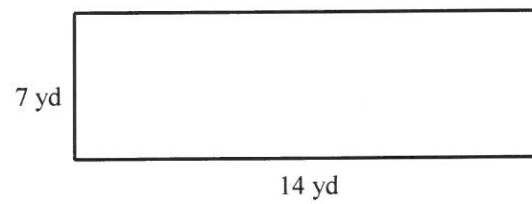
205.



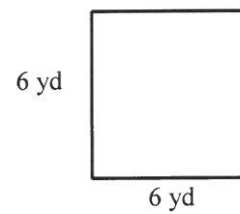
206.



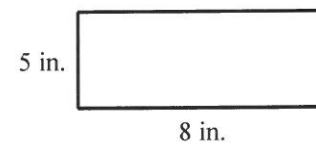
207.



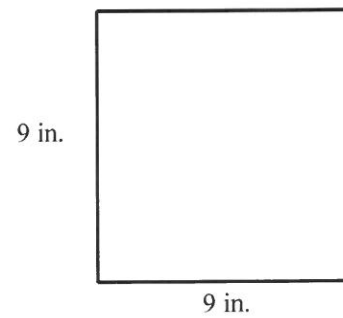
208.



209.



210.



Write the ratio in two other forms

211. 4 to 20

220. 2 to 18

226. $\frac{8}{20}$

212. 4 to 14

221. $\frac{2}{10}$

227. $\frac{4}{32}$

213. 4 to 12

222. $\frac{4}{12}$

228. $\frac{4}{6}$

214. 4 to 18

215. 4 to 24

223. $\frac{8}{36}$

229. $\frac{4}{36}$

216. 2 to 16

217. 8 to 20

224. $\frac{2}{14}$

230. $\frac{4}{14}$

218. 2 to 14

219. 8 to 12

225. $\frac{2}{12}$

231. A history class consists of 16 males and 13 females. Find the ratio of females to the entire class.

232. A math class consists of 11 males and 15 females. Find the ratio of males to the entire class.

233. A science class consists of 18 males and 14 females. Find the ratio of females to males.

234. A history class consists of 13 males and 11 females. Find the ratio of males to females.

235. A math class consists of 14 males and 12 females. Find the ratio of females to males.

236. In a store parking lot there were 9 vans and 3 cars. Write the ratio of cars to vans as a fraction.

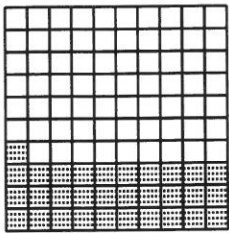
237. At a local shelter there were 7 dogs and 4 cats. Write the ratio of dogs to cats as a fraction.

238. In a recycling center bin there were 5 bottles and 6 cans. Write the ratio of cans to bottles as a fraction.

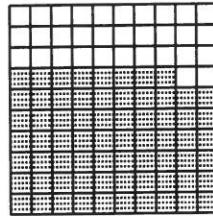
239. In a store parking lot there were 4 cars and 7 vans. Write the ratio of cars to vans as a fraction.

240. At a local shelter there were 6 cats and 2 dogs. Write the ratio of dogs to cats as a fraction.

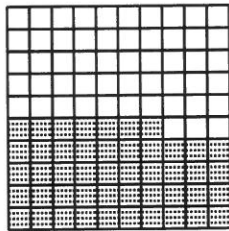
241. What percent of the square is shaded?



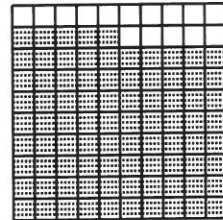
246. What percent of the square is shaded?



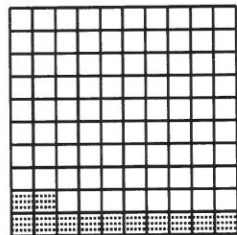
242. What percent of the square is shaded?



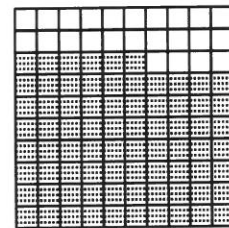
247. What percent of the square is shaded?



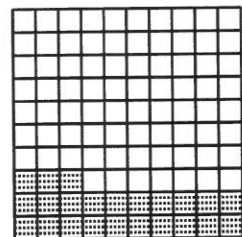
243. What percent of the square is shaded?



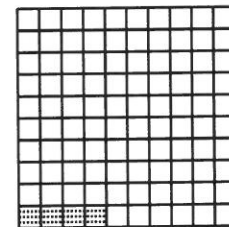
248. What percent of the square is shaded?



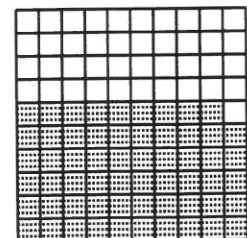
244. What percent of the square is shaded?



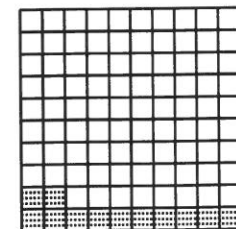
249. What percent of the square is shaded?



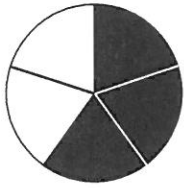
245. What percent of the square is shaded?



250. What percent of the square is shaded?



251. What percent of the circle is *not* shaded?



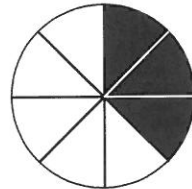
256. What percent of the circle is *not* shaded?



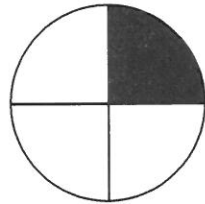
252. What percent of the circle is *not* shaded?



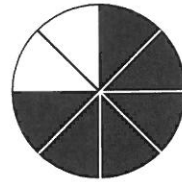
257. What percent of the circle is *not* shaded?



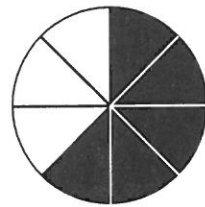
253. What percent of the circle is *not* shaded?



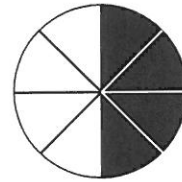
258. What percent of the circle is *not* shaded?



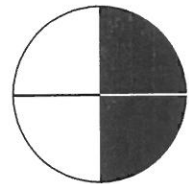
254. What percent of the circle is *not* shaded?



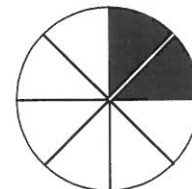
259. What percent of the circle is *not* shaded?



255. What percent of the circle is *not* shaded?



260. What percent of the circle is *not* shaded?



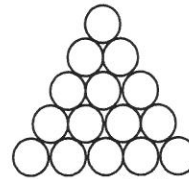
261. Write 85% as a decimal.
262. Write 66% as a decimal.
263. Write 98% as a decimal.
264. Write 53% as a decimal.
265. Write 32% as a decimal.
266. Write 79% as a decimal.
267. Write 17% as a decimal.
268. Write 44% as a decimal.
269. Write 25% as a decimal.
270. Write 86% as a decimal.
271. Write 0.01 as a percent.
272. Write 0.06 as a percent.
273. Write 0.03 as a percent.
274. Write 0.05 as a percent.
275. Write 0.08 as a percent.
276. Write 0.07 as a percent.
277. Write 0.09 as a percent.
278. Write 0.02 as a percent.
279. Write 0.04 as a percent.
280. Write 0.01 as a percent.
281. What number should come next in the number pattern? 2, 5, 8, 11, . . .
282. What number should come next in the number pattern? 0, 5, 10, 15, . . .

283. What number should come next in the number pattern? 2, 6, 10, 14, . . .

284. What number should come next in the number pattern? 0, 3, 6, 9, . . .

285. What number should come next in the number pattern? 2, 7, 12, 17, . . .

Use the display to answer the following questions.



286. A grocery clerk sets up a display of oranges in the form of a triangle using 9 oranges at the base and 1 at the top. How many oranges were used by the clerk to make the arrangement?

287. A grocery clerk sets up a display of oranges in the form of a triangle using 13 oranges at the base and 1 at the top. How many oranges were used by the clerk to make the arrangement?

288. A grocery clerk sets up a display of oranges in the form of a triangle using 12 oranges at the base and 1 at the top. How many oranges were used by the clerk to make the arrangement?

289. A grocery clerk sets up a display of oranges in the form of a triangle using 7 oranges at the base and 1 at the top. How many oranges were used by the clerk to make the arrangement?

290. A grocery clerk sets up a display of oranges in the form of a triangle using 11 oranges at the base and 1 at the top. How many oranges were used by the clerk to make the arrangement?

291. The first row in a theater has 14 seats, the second row has 18 seats, and the third row has 22 seats. If this pattern continues, how many seats will the eighth row have?

292. The first row in a theater has 8 seats, the second row has 14 seats, and the third row has 20 seats. If this pattern continues, how many seats will the sixth row have?

293. The first row in a theater has 10 seats, the second row has 18 seats, and the third row has 26 seats. If this pattern continues, how many seats will the seventh row have?

294. The first row in a theater has 16 seats, the second row has 20 seats, and the third row has 24 seats. If this pattern continues, how many seats will the eighth row have?

295. The first row in a theater has 12 seats, the second row has 18 seats, and the third row has 24 seats. If this pattern continues, how many seats will the seventh row have?

296. Peter is making up a banjo tune. He first played three E notes, then two A notes, then four D notes, and finally, three G notes. If he repeats this pattern of notes, what note will the 34th note be?

297. Zak is making up a banjo tune. He first played two E notes, then four A notes, then two D notes, and finally, one G note. If he repeats this pattern of notes, what note will the 19th note be?

298. Larry is making up a banjo tune. He first played one E note, then three A notes, then three D notes, and finally, four G notes. If he repeats this pattern of notes, what note will the 31st note be?

299. Tina is making up a banjo tune. She first played four E notes, then one A note, then one D note, and finally, two G notes. If she repeats this pattern of notes, what note will the 21st note be?

300. Elizabeth is making up a banjo tune. She first played three E notes, then two A notes, then four D notes, and finally, one G note. If she repeats this pattern of notes, what note will the 23rd note be?

Find each sum.

301) $154 + 752 + 654$

303) $138 + 534 + 893$

305) $124 + 318 + 713$

307) $147 + 11 + 696$

309) $131 + 58 + 671$

311) $19.656 + 189 + 943.1$

313) $226.16 + 975.4 + 0.56$

315) $851.5 + 33.5 + 103.8$

317) $17.92 + 157.7 + 631.8$

319) $724.5 + 569.3 + 889.1$

321) $1\frac{1}{2} + \frac{1}{3}$

323) $\frac{3}{5} + \frac{4}{3}$

325) $1\frac{1}{3} + 3\frac{3}{8}$

327) $4\frac{1}{4} + 4\frac{4}{7}$

329) $1 + 8\frac{3}{5}$

302) $144 + 273 + 850$

304) $128 + 55 + 824$

306) $134 + 796 + 782$

308) $151 + 13 + 808$

310) $141 + 536 + 739$

312) $77.13 + 23.612 + 989.5$

314) $799.2 + 0.95 + 9.4$

316) $47.52 + 944 + 254.2$

318) $597.5 + 11.264 + 320.6$

320) $649.7 + 163.2 + 26.637$

322) $3\frac{2}{3} + \frac{3}{2}$

324) $2\frac{2}{3} + 4\frac{2}{3}$

326) $\frac{1}{2} + \frac{12}{7}$

328) $1\frac{3}{5} + 3\frac{2}{5}$

330) $3\frac{2}{5} + 2\frac{3}{4}$

Find each difference.

331) $609 - 512$

333) $141 - 81$

335) $535 - 171$

337) $913 - 435$

339) $395 - 390$

341) $433.3 - 79.7$

343) $231.5 - 31.262$

345) $308.5 - 9.268$

347) $254 - 4.3$

349) $306.3 - 8.809$

351) $4\frac{1}{4} - 3\frac{4}{7}$

353) $3\frac{1}{4} - 2\frac{2}{3}$

355) $4\frac{1}{4} - \frac{6}{7}$

357) $\frac{9}{5} - \frac{13}{8}$

332) $203 - 140$

334) $620 - 220$

336) $689 - 131$

338) $646 - 475$

340) $509 - 180$

342) $304.9 - 168.1$

344) $410.8 - 8.3$

346) $485.6 - 414.4$

348) $912.4 - 460.8$

350) $381 - 19.124$

352) $4\frac{7}{8} - \frac{1}{2}$

354) $3\frac{3}{7} - \frac{1}{2}$

356) $8\frac{5}{6} - \frac{9}{5}$

358) $\frac{1}{6} - \frac{1}{7}$

359) $\frac{11}{6} - \frac{1}{3}$

360) $4\frac{1}{3} - 1\frac{1}{5}$

Find each product.

361) $35 \cdot 8$

362) $28 \cdot 8$

363) $38 \cdot 46$

364) $22 \cdot 33$

365) $32 \cdot 20$

366) $25 \cdot 20$

367) $19 \cdot 20$

368) $12 \cdot 46$

369) $15 \cdot 33$

370) $9 \cdot 33$

371) $\frac{9}{5} \cdot \frac{2}{5}$

372) $5\frac{1}{8} \cdot \frac{1}{3}$

373) $3\frac{1}{8} \cdot 1\frac{1}{6}$

374) $\frac{1}{3} \cdot \frac{13}{8}$

375) $2\frac{5}{6} \cdot \frac{9}{5}$

376) $\frac{4}{5} \cdot \frac{1}{6}$

377) $4\frac{4}{9} \cdot \frac{7}{6}$

378) $2\frac{5}{9} \cdot \frac{7}{4}$

379) $3\frac{5}{6} \cdot 1\frac{6}{7}$

380) $4\frac{1}{2} \cdot 4\frac{1}{7}$

381) $0.984 \cdot 9.2$

382) $2.3 \cdot 2.8$

383) $0.5 \cdot 7.3$

384) $6.6 \cdot 0.9$

385) $2.5 \cdot 0.3$

386) $8.3 \cdot 2.1$

387) $1.52 \cdot 9.8$

388) $9.99 \cdot 6.6$

389) $0.7 \cdot 9.2$

390) $1.1 \cdot 7.9$

Find each quotient.

391) $4730 \div 86$

392) $3744 \div 78$

393) $5472 \div 76$

394) $3515 \div 95$

395) $3465 \div 99$

396) $5609 \div 79$

397) $984 \div 82$

398) $76 \div 4$

399) $8740 \div 92$

400) $4717 \div 89$

401) $4.7 \div 45$

402) $24.7 \div 2$

403) $16.7 \div 6.4$

404) $19.5 \div 5.7$

405) $3.9 \div 35.2$

406) $41.4 \div 10$

407) $5.091 \div 10.3$

408) $18 \div 33$

409) $22.6 \div 12.5$

410) $5.4 \div 7.9$

Write the prime factorization of each.

411) 40

412) 66

413) 62

414) 70

415) 55

416) 46

417) 69

418) 75

419) 49

420) 72

Find the GCF of each.

421) 6, 24

422) 36, 48

423) 44, 22

425) 33, 44

427) 28, 35

429) 30, 18

Find the LCM of each.

431) 4, 22

433) 32, 24

435) 30, 12

437) 20, 40

439) 33, 12

Evaluate each expression.

441) $5 \cdot (6 \cdot 2) \div 2$

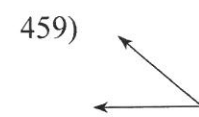
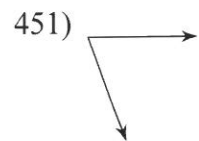
443) $13 + (44 - 8) \div 6$

445) $11 - 8 - 1 + 6$

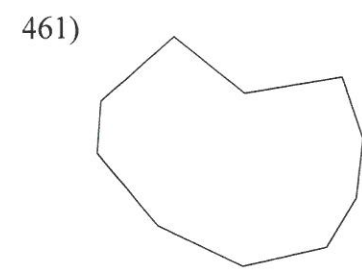
447) $12 + 8 - 14 \div 7$

449) $(2 + 1) \div (13 - 10)$

Classify each angle as acute, obtuse, or right.



Write the name of each polygon.



424) 18, 27

426) 16, 30

428) 48, 12

430) 40, 50

432) 21, 14

434) 28, 35

436) 40, 16

438) 18, 12

440) 30, 40

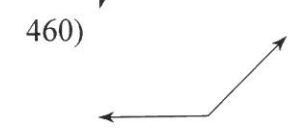
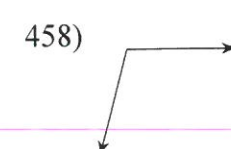
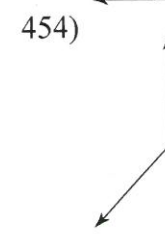
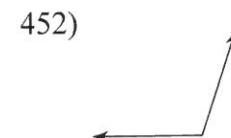
442) $15 \cdot 5 - 8 \div 4$

444) $5 + 5 \cdot 7 + 8$

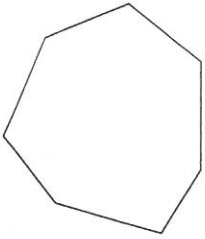
446) $15 \div (5 - 2) - 1$

448) $42 \div (9 + 2 - 4)$

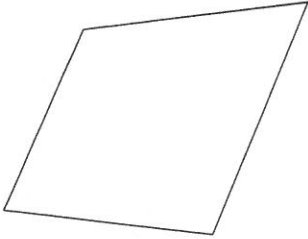
450) $(2 + 6) \cdot 9 + 7$



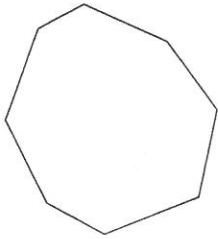
463)



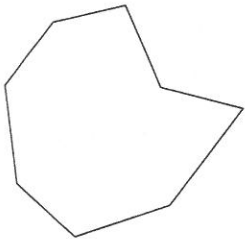
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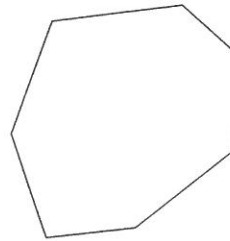
467)



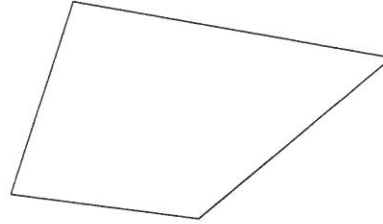
469)



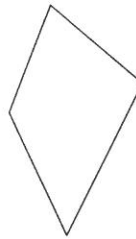
464)



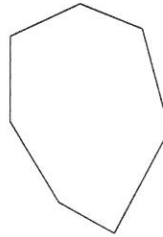
466)



468)

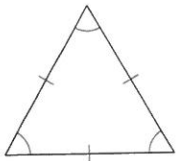


470)

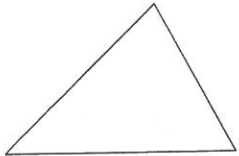


Classify each triangle by its angles and sides.

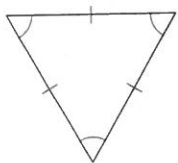
471)



473)



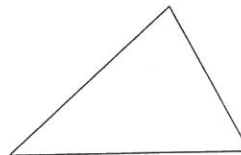
475)



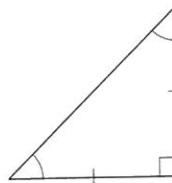
477)



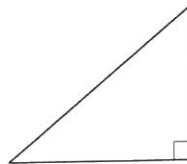
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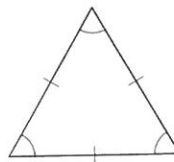
474)

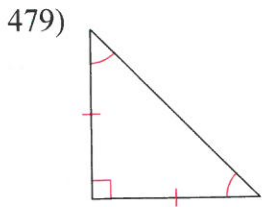


476)

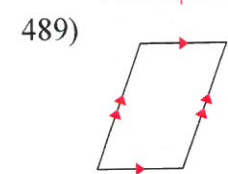
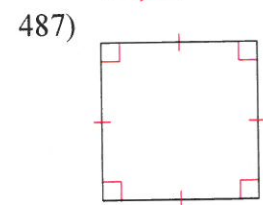
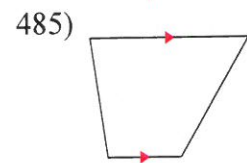
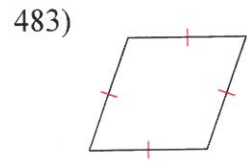
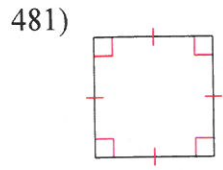


478)

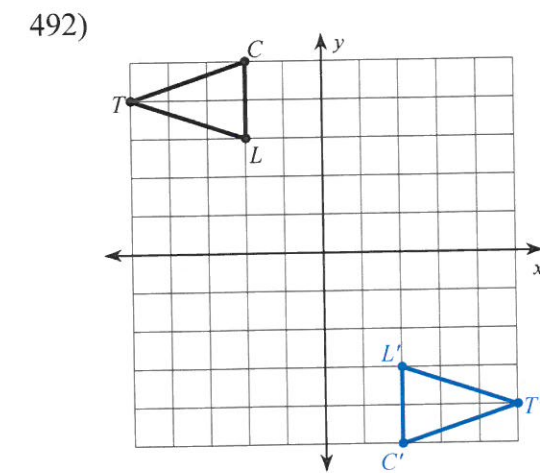
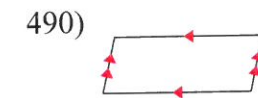
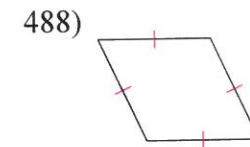
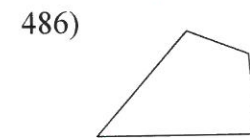
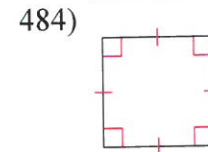
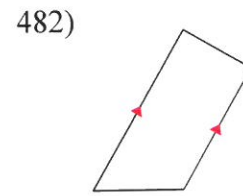
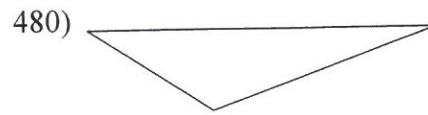
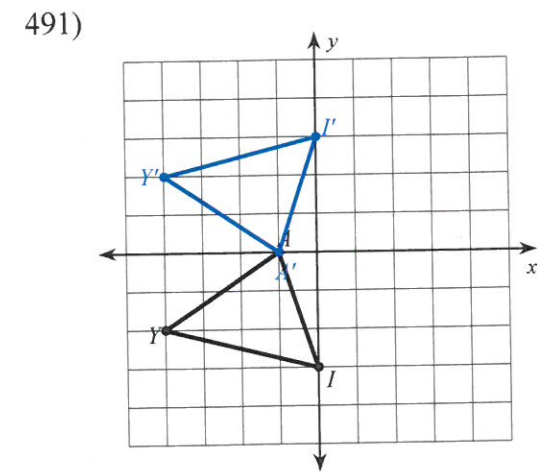




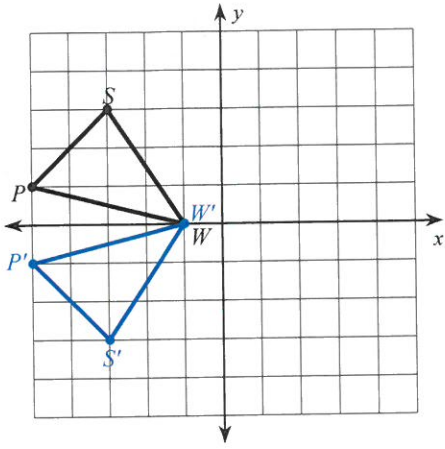
State all possible names for each figure.



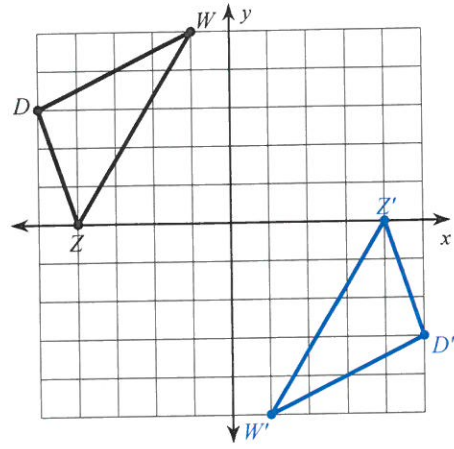
Write a rule to describe each transformation.



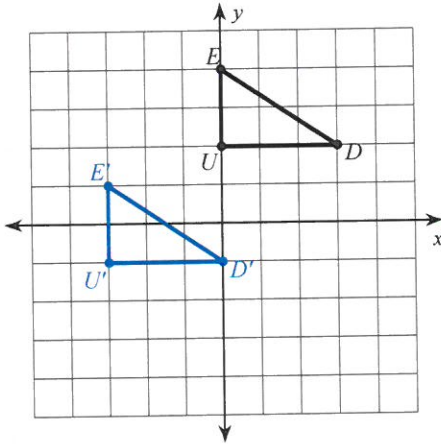
493)



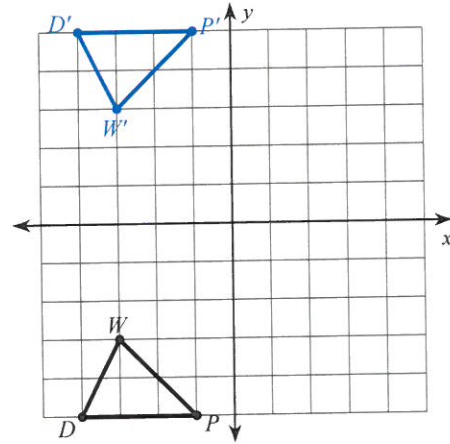
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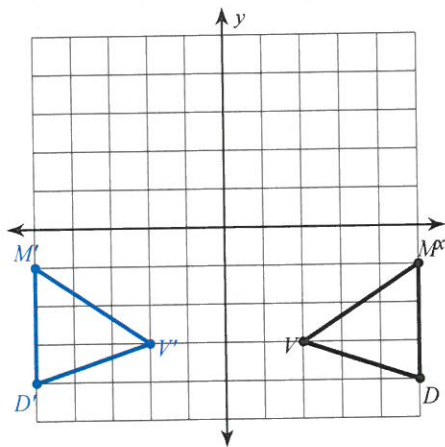
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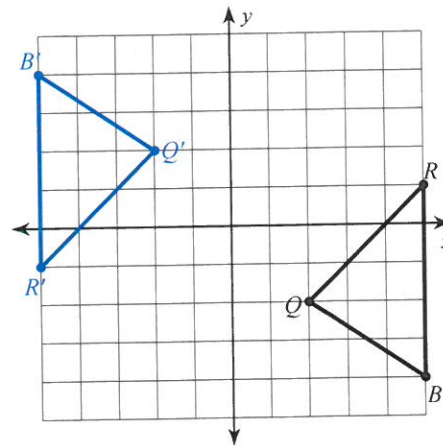
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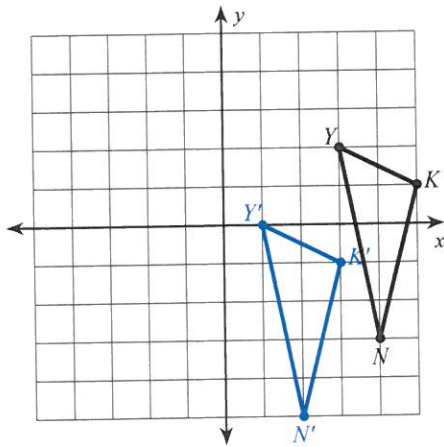
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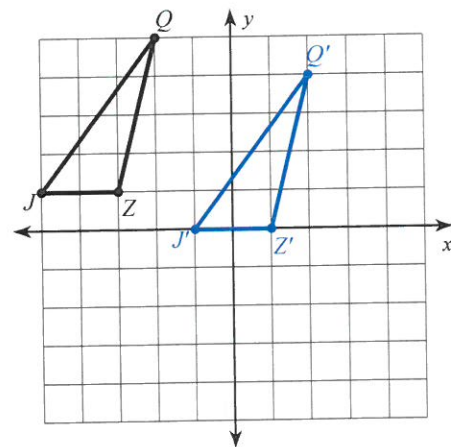
498)



499)

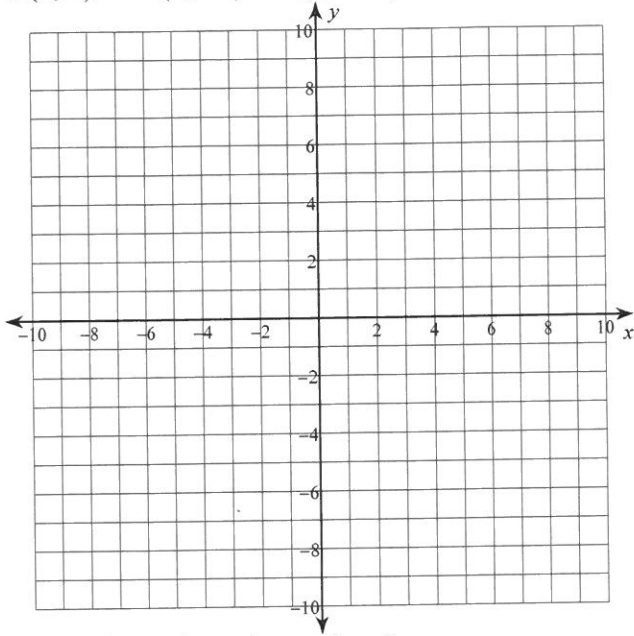


500)

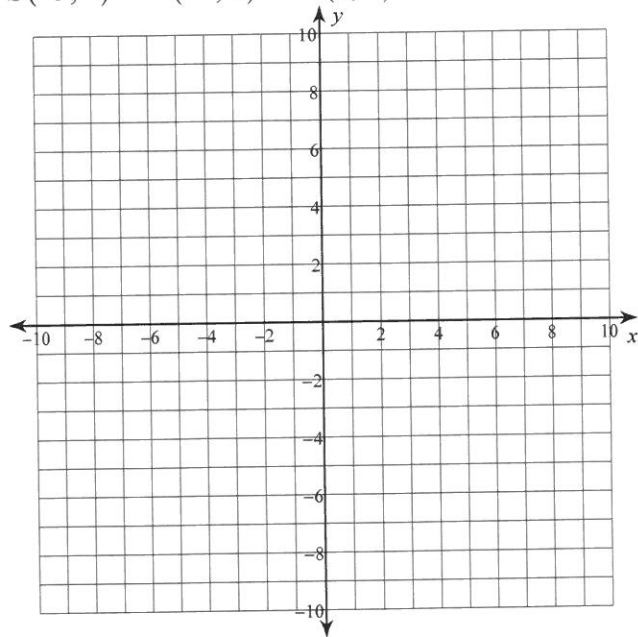


State the quadrant or axis that each point lies in.

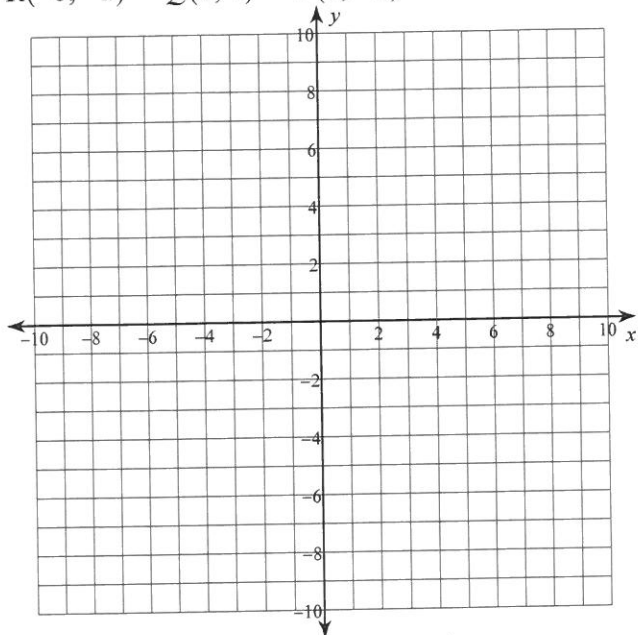
501) $G(0, 1)$ $H(1, -4)$ $I(1, -10)$



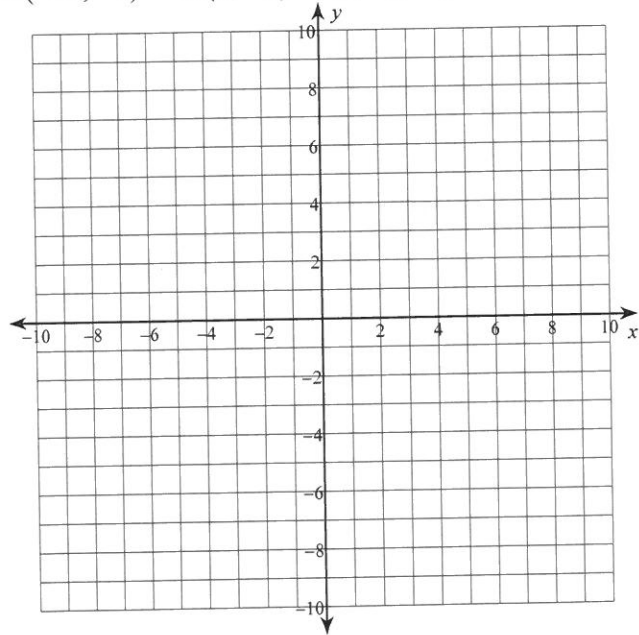
502) $S(-5, 0)$ $T(-9, 1)$ $U(3, 5)$



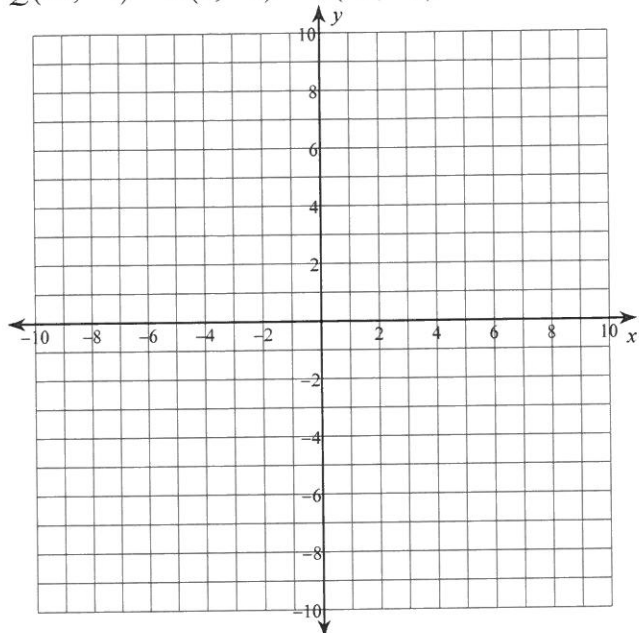
503) $R(-8, -2)$ $Q(1, 4)$ $P(0, -9)$



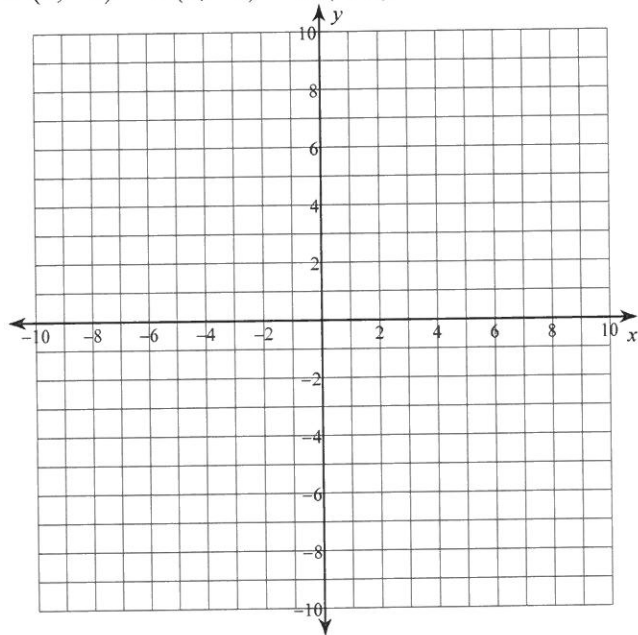
504) $J(-10, -6)$ $K(1, -9)$ $L(-8, -6)$



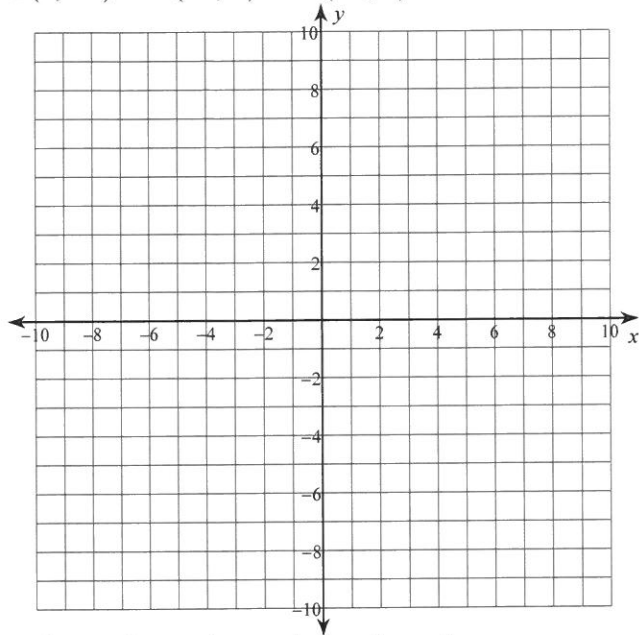
505) $Q(10, -7)$ $R(1, -1)$ $S(-3, -5)$



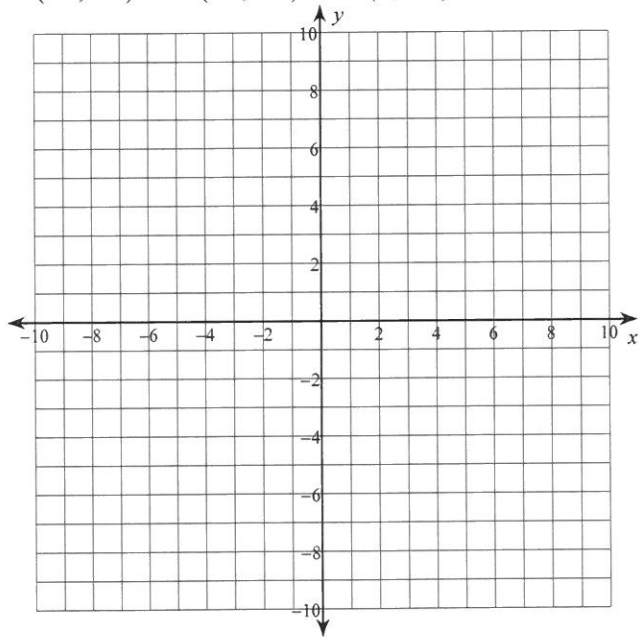
506) $F(3, -5)$ $E(2, -8)$ $D(9, 6)$



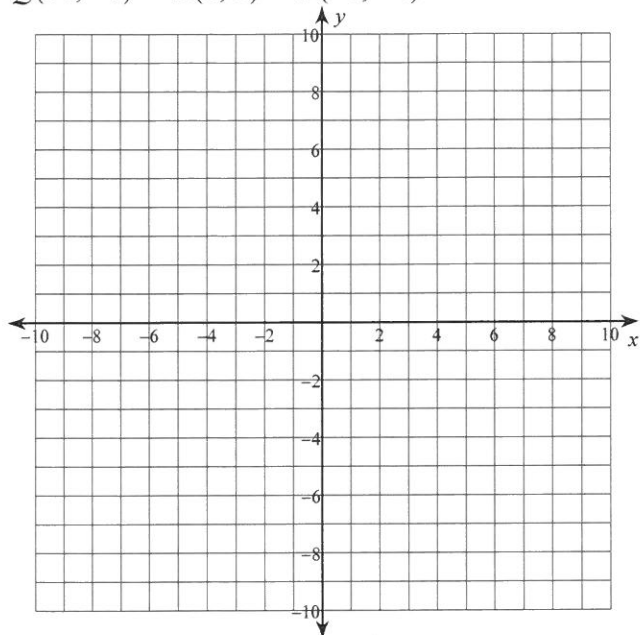
507) $B(7, -1)$ $C(-8, 1)$ $D(-7, 9)$



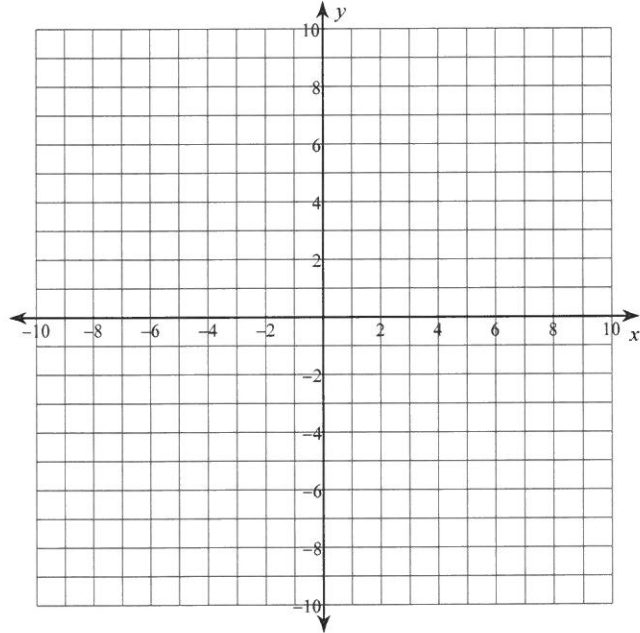
508) $H(-4, -8)$ $G(-9, -3)$ $F(6, -8)$



509) $Q(10, -7)$ $R(2, 2)$ $S(-4, -4)$



510) $T(7, 0)$ $U(0, -6)$ $V(9, 0)$



Answer Key

1.	Range 20 Mean 11 Median 10 Mode 21	10.	Range 21 Mean 16.1 Median 17 Mode 22	[30] 60 in [31] 5 yds
2.	Range 17 Mean 9.8 Median 9 Mode 8	11.	2000	[32] 10 yds
3.	Range 21 Mean 14 Median 15 Mode none	12.	\$150	[33] 6 yds
4.	Range 21 Mean 12.9 Median 13 Mode 13	13.	\$845	[34] 2 yds
5.	Range 17 Mean 11 Median 10 Mode 16	14.	a. 8 th grade. b. 7 th grade.	[35] 3 yds [36] 4 yds
6.	Range 18 Mean 11.3 Median 9 Mode 7	15.	a. 50 dollars b. 30 dollars	[37] 9 yds
7.	Range 18 Mean 13.6 Median 12 Mode 21	16.	Period 3	[38] 7 yds
8.	Range 18 Mean 10.6 Median 8 Mode none	17.	Period 5	[39] 8 yds
9.	Range 21 Mean 15.3 Median 18 Mode none	18.	18 people	[40] 6 yds
		19.	4 people	[41] 288
		20.	Gp:3 Cl: 0-2&4-6 O:10	[42] 108
		21.	84 in	[43] 144
		[22]	60 in	[44] 180
		[23]	72 in	[45] 72
		[24]	108 in	[46] 216
		[25]	36 in	[47] 324
		[26]	24 in	[48] 432
		[27]	48 in	[49] 360
		[28]	96 in	[50] 252
		[29]	84 in	[51] 30

[52] 9	[75] 7,000	[98] 11 lb
[53] 12	[76] 6,000	[99] 6 lb
[54] 21	[77] 10,000	[100] 5 lb
[55] 36	[78] 11,000	[101] 7,000
[56] 6	[79] 12,000	[102] 9,000
[57] 27	[80] 2,000	[103] 10,000
[58] 33	[81] 8,000 lbs	[104] 3,000
[59] 15	[82] 12,000 lbs	[105] 4,000
[60] 24	[83] 18,000 lbs	[106] 12,000
[61] 33	[84] 16,000 lbs	[107] 11,000
[62] 51	[85] 24,000 lbs	[108] 2,000
[63] 43	[86] 14,000 lbs	[109] 6,000
[64] 76	[87] 6,000 lbs	[110] 5,000
[65] 7	[88] 10,000 lbs	[111] 9
[66] 48	[89] 22,000 lbs	[112] 4
[67] 65	[90] 4,000 lbs	[113] 7
[68] 23	[91] 3 lb	[114] 2
[69] 47	[92] 10 lb	[115] 14
[70] 21	[93] 12 lb	[116] 3
[71] 8,000	[94] 9 lb	[117] 11
[72] 9,000	[95] 8 lb	[118] 10
[73] 4,000	[96] 7 lb	[119] 6
[74] 5,000	[97] 4 lb	[120] 15

[121] 18	[144] 7 gal	[163] 904 L
[122] 49	[145] 6 pt	[164] 30.2 L
[123] 98	[146] 18 pt	[165] 64.7 L
[124] 66	[147] 14 pt	[166] 4.58 L
[125] 20	[148] 5 gal	[167] 564 L
[126] 5	[149] 9 gal	[168] 6,720 L
[127] 31	[150] 3 gal	[169] 2.73 L
[128] 46	[151] $6\frac{1}{2}$ qt	[170] 9,440 L
[129] 77	[152] $2\frac{1}{8}$ gal	[171] 32,000
[130] 36	[153] 2 gal	[172] 30,000
[131] 325,000	[154] $5\frac{1}{2}$ qt	[173] 50,000
[132] 2,950,000	[155] 3 qt	[174] 34,000
[133] 1,484,000	[156] $2\frac{3}{8}$ gal	[175] 18,000
[134] 770,000	[157] $1\frac{3}{8}$ gal	[176] 39,000
[135] 1,992,000	[158] $4\frac{1}{2}$ qt	[177] 26,000
[136] 566,000	[159] $5\frac{1}{4}$ qt	[178] 43,000
[137] 1,948,000	[160] $1\frac{3}{4}$ gal	[179] 46,000
[138] 1,270,000	[161] 4,450 L	[180] 16,000
[139] 305,000	[162] 6.83 L	[181] 10:00 p.m.
[140] 2,103,000		[182] 12:00 midnight
[141] 9 gal		[183] 5:00 p.m.
[142] 3 gal		[184] 10:00 p.m.
[143] 10 pt		[185] 6:00 a.m.

[186] 9:00 a.m.	[209] 40 in ²	[229] 4 to 36, 4:36
[187] 9:00 a.m.	[210] 81 in ²	[230] 4 to 14, 4:14
[188] 11:00 p.m.	[211] 4:20, $\frac{4}{20}$	[231] 13 to 29
[189] 8:00 p.m.	[212] 4:14, $\frac{4}{14}$	[232] 11 to 26
[190] 9:00 a.m.	[213] 4:12, $\frac{4}{12}$	[233] 7 to 9
[191] 18 m	[214] 4:18, $\frac{4}{18}$	[234] 13 to 11
[192] 36 m	[215] 4:24, $\frac{4}{24}$	[235] 6 to 7
[193] 28 yd	[216] 2:16, $\frac{2}{16}$	[236] $\frac{3}{9}$
[194] 16 ft	[217] 8:20, $\frac{8}{20}$	[237] $\frac{7}{4}$
[195] 20 ft	[218] 2:14, $\frac{2}{14}$	[238] $\frac{6}{5}$
[196] 24 ft	[219] 8:12, $\frac{8}{12}$	[239] $\frac{4}{7}$
[197] 28 in	[220] 2:18, $\frac{2}{18}$	[240] $\frac{2}{6}$
[198] 32 m	[221] 2 to 10, 2:10	[241] 31%
[199] 26 ft	[222] 4 to 12, 4:12	[242] 47%
[200] 28 ft	[223] 8 to 36, 8:36	[243] 12%
[201] 75 yd ²	[224] 2 to 14, 2:14	[244] 23%
[202] 49 in ²	[225] 2 to 12, 2:12	[245] 59%
[203] 96 in ²	[226] 8 to 20, 8:20	[246] 68%
[204] 25 yd ²	[227] 4 to 32, 4:32	[247] 85%
[205] 99 ft ²	[228] 4 to 6, 4:6	[248] 76%
[206] 100 in ²		[249] 4%
[207] 98 yd ²		[250] 12%
[208] 36 yd ²		[251] 40%

[252] 80%	[269] 0.25	[286] 45 oranges
[253] 75%	[270] 0.86	[287] 91 oranges
[254] 37.5%	[271] 1%	[288] 78 oranges
[255] 50%	[272] 6%	[289] 28 oranges
[256] 20%	[273] 3%	[290] 66 oranges
[257] 62.5%	[274] 5%	[291] 42 seats
[258] 25%	[275] 8%	[292] 38 seats
[259] 50%	[276] 7%	[293] 58 seats
[260] 75%	[277] 9%	[294] 44 seats
[261] 0.85	[278] 2%	[295] 48 seats
[262] 0.66	[279] 4%	[296] G
[263] 0.98	[280] 1%	[297] E
[264] 0.53	[281] 14	[298] G
[265] 0.32	[282] 20	[299] A
[266] 0.79	[283] 18	[300] E
[267] 0.17	[284] 12	
[268] 0.44	[285] 22	

Answers to

- | | | | |
|-----------------------|--------------------------|----------------------------------|--|
| 301) 1560 | 302) 1267 | 303) 1565 | 304) 1007 |
| 305) 1155 | 306) 1712 | 307) 854 | 308) 972 |
| 309) 860 | 310) 1416 | 311) 1151.756 | 312) 1090.242 |
| 313) 1202.12 | 314) 809.55 | 315) 988.8 | 316) 1245.72 |
| 317) 807.42 | 318) 929.364 | 319) 2182.9 | 320) 839.537 |
| 321) $1\frac{5}{6}$ | 322) $5\frac{1}{6}$ | 323) $1\frac{14}{15}$ | 324) $7\frac{1}{3}$ |
| 325) $4\frac{17}{24}$ | 326) $2\frac{3}{14}$ | 327) $8\frac{23}{28}$ | 328) 5 |
| 329) $9\frac{3}{5}$ | 330) $6\frac{3}{20}$ | 331) 97 | 332) 63 |
| 333) 60 | 334) 400 | 335) 364 | 336) 558 |
| 337) 478 | 338) 171 | 339) 5 | 340) 329 |
| 341) 353.6 | 342) 136.8 | 343) 200.238 | 344) 402.5 |
| 345) 299.232 | 346) 71.2 | 347) 249.7 | 348) 451.6 |
| 349) 297.491 | 350) 361.876 | 351) $\frac{19}{28}$ | 352) $4\frac{3}{8}$ |
| 353) $\frac{7}{12}$ | 354) $2\frac{13}{14}$ | 355) $3\frac{11}{28}$ | 356) $7\frac{1}{30}$ |
| 357) $\frac{7}{40}$ | 358) $\frac{1}{42}$ | 359) $1\frac{1}{2}$ | 360) $3\frac{2}{15}$ |
| 361) 280 | 362) 224 | 363) 1748 | 364) 726 |
| 365) 640 | 366) 500 | 367) 380 | 368) 552 |
| 369) 495 | 370) 297 | 371) $\frac{18}{25}$ | 372) $1\frac{17}{24}$ |
| 373) $3\frac{31}{48}$ | 374) $\frac{13}{24}$ | 375) $5\frac{1}{10}$ | 376) $\frac{2}{15}$ |
| 377) $5\frac{5}{27}$ | 378) $4\frac{17}{36}$ | 379) $7\frac{5}{42}$ | 380) $18\frac{9}{14}$ |
| 381) 9.0528 | 382) 6.44 | 383) 3.65 | 384) 5.94 |
| 385) 0.75 | 386) 17.43 | 387) 14.896 | 388) 65.934 |
| 389) 6.44 | 390) 8.69 | 391) 55 | 392) 48 |
| 393) 72 | 394) 37 | 395) 35 | 396) 71 |
| 397) 12 | 398) 19 | 399) 95 | 400) 53 |
| 401) 0.10444444444444 | 402) 12.35 | 403) 2.609375 | 404) 3.42105263158 |
| 405) 0.110795454545 | 406) 4.14 | 407) 0.49427184466 | 408) 0.545454545455 |
| 409) 1.808 | 410) 0.683544303797 | 411) $2 \cdot 2 \cdot 2 \cdot 5$ | 412) $2 \cdot 3 \cdot 11$ |
| 413) $2 \cdot 31$ | 414) $2 \cdot 5 \cdot 7$ | 415) $5 \cdot 11$ | 416) $2 \cdot 23$ |
| 417) $3 \cdot 23$ | 418) $3 \cdot 5 \cdot 5$ | 419) $7 \cdot 7$ | 420) $2 \cdot 2 \cdot 2 \cdot 3 \cdot 3$ |
| 421) 6 | 422) 12 | 423) 22 | 424) 9 |
| 425) 11 | 426) 2 | 427) 7 | 428) 12 |
| 429) 6 | 430) 10 | 431) 44 | 432) 42 |
| 433) 96 | 434) 140 | 435) 60 | 436) 80 |
| 437) 40 | 438) 36 | 439) 132 | 440) 120 |
| 441) 30 | 442) 73 | 443) 19 | 444) 48 |

- 445) 8
 449) 1
 453) obtuse
 457) obtuse
 461) decagon
 465) quadrilateral
 469) octagon
 473) acute scalene
 477) obtuse scalene
 481) quadrilateral, parallelogram, rhombus, rectangle, square
 482) quadrilateral, trapezoid
 484) quadrilateral, parallelogram, rhombus, rectangle, square
 485) quadrilateral, trapezoid
 487) quadrilateral, parallelogram, rhombus, rectangle, square
 488) quadrilateral, parallelogram, rhombus
 490) quadrilateral, parallelogram
 493) reflection across the x-axis
 495) translation: 3 units left and 3 units down
 497) reflection across the y-axis
 499) translation: 2 units left and 2 units down
 501) *G*: y-axis *H*: IV *I*: IV
 504) *J*: III *K*: IV *L*: III
 507) *B*: IV *C*: II *D*: II
 510) *T*: x-axis *U*: y-axis *V*: x-axis
- 446) 4
 450) 79
 454) obtuse
 458) obtuse
 462) quadrilateral
 466) quadrilateral
 470) heptagon
 474) right isosceles
 478) equilateral
 483) quadrilateral, parallelogram, rhombus
 486) quadrilateral
 489) quadrilateral, parallelogram
- 447) 18
 451) acute
 455) right
 459) acute
 463) heptagon
 467) octagon
 471) equilateral
 475) equilateral
 479) right isosceles
- 448) 6
 452) obtuse
 456) obtuse
 460) obtuse
 464) heptagon
 468) quadrilateral
 472) acute scalene
 476) right scalene
 480) obtuse scalene
- 491) reflection across the x-axis
 494) rotation 180° about the origin
 496) reflection across the x-axis
 498) rotation 180° about the origin
 500) translation: 4 units right and 1 unit down
 502) *S*: x-axis *T*: II *U*: I
 505) *Q*: IV *R*: IV *S*: III
 508) *H*: III *G*: III *F*: IV
 509) *Q*: IV *R*: I *S*: III
- 503) *R*: III *Q*: I *P*: y-axis
 506) *F*: IV *E*: IV *D*: I