

Evaluate each expression.

1) $24 + (-1)$

2) $(-24) + 0$

3) $(-45) - (-35)$

4) $(-34) - (-1)$

5) $5 - (-19)$

Find each sum.

6) $5.68 + 10.789$

7) $6.8 + 45.4$

8) $42.8 + 29.02$

9) $35.4 + 25.8$

10) $50 + 8.9$

11) $1 + 3\frac{1}{2}$

12) $\frac{9}{7} + 7\frac{10}{11}$

13) $8\frac{13}{14} + \frac{11}{10}$

14) $\frac{2}{5} + \frac{9}{7}$

15) $\frac{3}{5} + \frac{1}{4}$

Find each difference.

16) $4\frac{2}{7} - 1\frac{13}{14}$

17) $2\frac{1}{8} - \frac{2}{5}$

18) $7\frac{4}{7} - \frac{14}{15}$

19) $7\frac{1}{2} - \frac{9}{11}$

20) $6\frac{2}{3} - \frac{6}{13}$

Find each sum.

21) $2 + \frac{1}{2}$

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

$$23) \frac{1}{2} + 7\frac{5}{7}$$

$$24) \frac{5}{4} + 4\frac{1}{2}$$

$$25) 2\frac{3}{10} + \frac{7}{6}$$

Find the area of each. Round your answer to the nearest whole.

26) radius = 6 km

27) radius = 9 yd

28) diameter = 10 mi

29) diameter = 16 km

Find the circumference of each circle. Round your answer to the nearest whole.

30) radius = 6 m

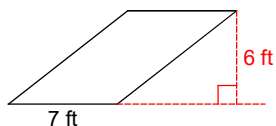
31) radius = 12 ft

32) diameter = 15 m

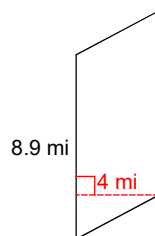
33) diameter = 4 km

Find the area of each.

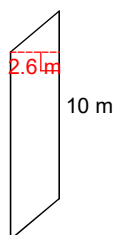
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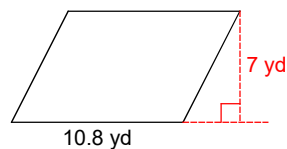
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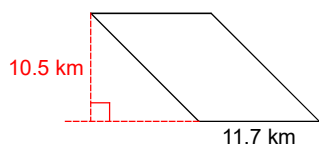
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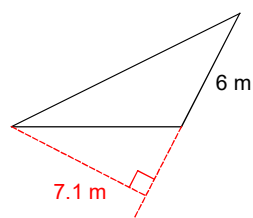
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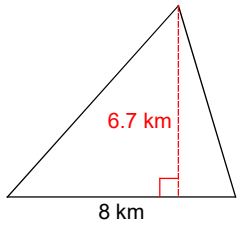
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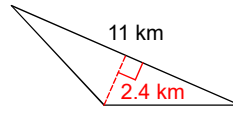
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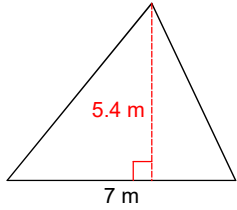
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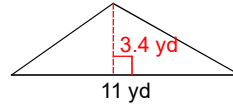
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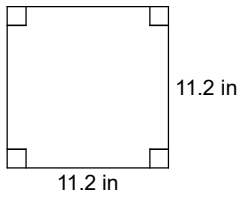
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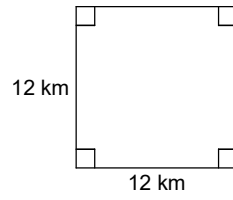
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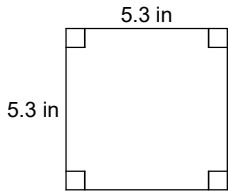
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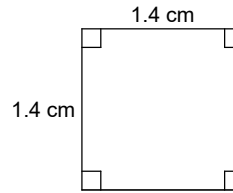
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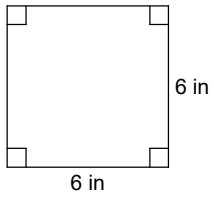
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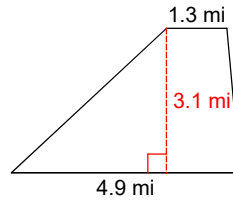
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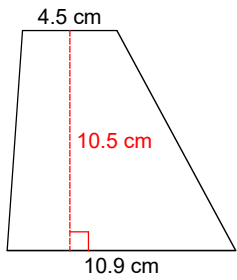
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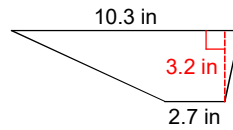
49)



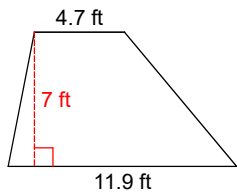
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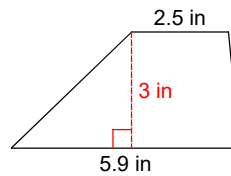
51)



52)



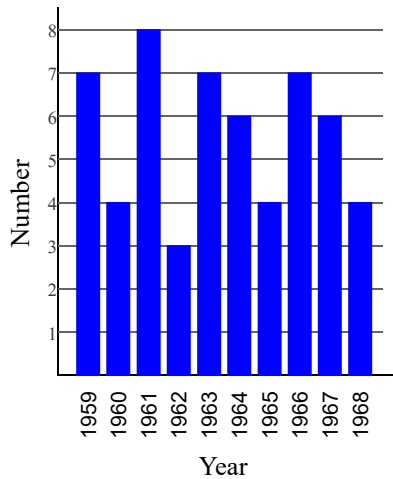
53)



Find the median and mean for each data set.

54)

Atlantic Hurricanes



55)

Hours Slept

8.75	6.25	7.5	7.75	8.25
5.75	4.75	6.75	5.75	7.25

Find the diameter of each circle. Round your answer to the nearest tenth.

56) radius = 3 ft

57) radius = 10 cm

Simplify each expression.

58) $11 - 3x + 10x$

59) $r - 13 - 3r$

60) $-3b + 11b$

61) $-n - 7n$

62) $9r + 7r$

63) $7(6 - 13v)$

64) $-5(x - 14)$

65) $-5(1 + 10n)$

66) $11(3a - 14)$

67) $-8(3 - 2k)$

68) $-12b + 4(11b - 1)$

69) $11(-8v - 6) + 7$

70) $-12(13 - 9x) + 6x$

71) $-14(2x - 11) - 4$

$$72) -2 - 6(n + 12)$$

Write the name of each decimal place indicated.

$$73) 81.\underline{4}65$$

$$74) 7.\underline{7}24$$

Round each to the place indicated.

$$75) 3.8\underline{7}135$$

$$76) 4.\underline{9}015$$

$$77) 7.\underline{1}386$$

$$78) 3.\underline{9}68$$

$$79) 9.\underline{9}3$$

Find each quotient.

$$80) -494 \div 19$$

$$81) 5848 \div -68$$

$$82) 1001 \div 11$$

$$83) -190 \div 19$$

$$84) 408 \div -51$$

$$85) 1.3 \div 0.2$$

$$86) -1 \div 0.1$$

Find each product.

$$87) (28)(-44)$$

$$88) (50)(-21)$$

$$89) (-8)(8)(-6)$$

$$90) (-6)(-1)(2)$$

$$91) (3)(-7)(5)$$

Evaluate each expression.

$$92) (2 + 4^2 - 6) \div 3$$

$$93) 10 + 13 - 16 \div (5 - (6 - 5))$$

$$94) 11 + 10 + (11 - 10)(2) - 4$$

Evaluate each using the values given.

95) $(n)(m^2)(1 + 1^2)$; use $m = 3$, and $n = 3$

96) $y - (x - 2 \div 2 + z - z)$; use $x = 8$, $y = 9$, and $z = 8$

97) $n^2 - (m + n - (5 + m))$; use $m = 9$, and $n = 7$

Evaluate each expression.

98) $((-36) \div (7 - 11))(-11) + 12$

99) $(3)((-8) + 4 - 2 - 9)$

100) $(5)((-11) - (14 - (5 + 13)))$

Simplify. Your answer should contain only positive exponents.

101) $\frac{5^2}{5}$

102) $\frac{6^4}{6}$

103) $\frac{8^2}{8^3}$

104) $\frac{2^4}{2^3}$

State if the first number is divisible by the second number.

105) 540 by 2

106) 629 by 3

Each number is divisible by which of the following: 2, 3, 5, 6, 9, 10?

107) 570

108) 905

Solve each equation. Remember to ask yourself, "what is being done to the variable."

109) $-26 = -20 + x$

110) $x + 14 = 7$

111) $-16 = x - 3$

112) $-4 = 14 + x$

113) $18p = -90$

114) $\frac{x}{15} = -16$

115) $224 = -16a$

116) $-20 = -4x$

For each word problem listed, solve.

117) John wants to buy a purse for \$66.94. He gives the cashier \$80. What is his change?

118) For cleaning the attic Darryl was given \$14.27. Now he has \$25.57. How much money did he have before?

119) Six workers are hired to weed a field by hand. Each is given a plot which is 5×9 feet in size. What is the total area of the field?

120) Molly spent \$30 on tissues. If they cost \$6 / box, how many boxes did she buy?

Solve each proportion.

121) $\frac{b}{4} = \frac{3}{9}$

122) $\frac{2}{3} = \frac{5}{n}$

123) $\frac{5}{8} = \frac{10}{n}$

124) $\frac{2}{x} = \frac{9}{8}$

Solve each equation. Remember to ask yourself, "what operations are being done to the variable."

125) $-83 = 10x - 3$

126) $6 = 8 + \frac{b}{7}$

127) $-9p + 5 = 77$

128) $9 = \frac{v}{10} + 10$

List all positive factors of each.

129) 356

130) 265

Write the exponential prime factorization of each.

131) 216

132) 400

133) $40x$

134) $45n$

135) $50x^2$

136) $36n^2$

Find each quotient.

137) $\frac{-3}{5} \div \frac{-3}{2}$

138) $\frac{1}{3} \div -3\frac{5}{8}$

139) $-2 \div \frac{8}{5}$

140) $6 \div \frac{-1}{2}$

Find each product.

141) $\frac{2}{5} \cdot \frac{2}{7}$

142) $\frac{3}{2} \cdot \frac{12}{7}$

143) $1\frac{7}{9} \cdot 2 \cdot \frac{1}{2}$

144) $4\frac{5}{8} \cdot 2 \cdot \frac{7}{4}$

145) $\left(-2\frac{8}{9}\right)(-2)$

146) $\left(-\frac{11}{9}\right)\left(\frac{4}{5}\right)$

Simplify each. Write your answer as a mixed number when possible.

147) $\frac{36}{90}$

148) $\frac{24}{60}$

149) $\frac{144}{450}$

150) $\frac{480}{520}$

Find the GCF of each.

151) 38, 57

152) 24, 60

153) $24y^3, 48y^4$

154) $24v^2, 24uv^2$

155) $25a, 37a^2, 48a^2$

156) $48yx^2, 36yx^2, 48x^3y$

Evaluate each expression.

157) $462 - 373$

158) $(-36) + 143$

159) $(-11) + 11 - 6$

160) $(-2) - 15 - (-12)$

161) $(-13) + 14 - (-10) + (-13)$

162) $6 + 16 - (-12) + 12$

Find the LCM of each.

163) 15, 12

164) 10, 15

165) 6, 9, 15

166) 20, 15, 10

167) $15y^2, 10x^2y, 15xy^2$

168) $16a^4, 16a^3b, 8a^2$

Evaluate each expression.

169) $3 - \left((-4) + 3 - \frac{12}{4} \right)$

170) $\frac{5}{(6-3)^2 - 4}$

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

171) 1%

172) 70%

Write each as a fraction.

173) 40%

174) 86%

Write each as a percent. Use repeating decimals when necessary.

175) 0.8

176) 0.366

Write each as a fraction.

177) 0.2

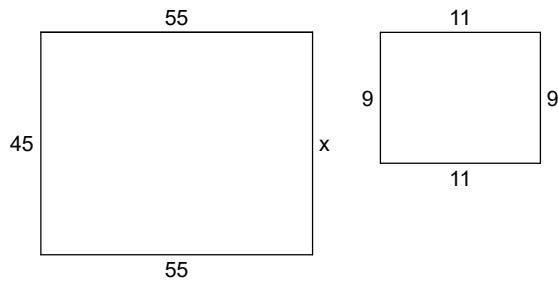
178) 0.61

Answer each question and round your answer to the nearest whole number.

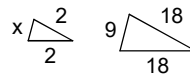
179) Find the distance between Yorkshire and Clayton on a map with a scale of 2 in : 16 mi if they are actually 32 mi apart.

Each pair of figures is similar. Find the missing side.

180)



181)



State if each pair of ratios forms a proportion.

182) $\frac{9}{19}$ and $\frac{3}{3.8}$

183) $\frac{15}{13.2}$ and $\frac{3}{3.3}$

Answer each question and round your answer to the nearest whole number.

184) A painting is 4 in tall and 2 in wide. If it is reduced to a width of 1 in, then how tall will it be?

185) The currency in the eastern Caribbean islands is the Eastern Caribbean Dollar. The exchange rate is approximately 3 Eastern Caribbean Dollars = \$1. At this rate, how many dollars would you get if you exchanged 18 Eastern Caribbean Dollars?

Answers to

- | | | | |
|--------------------------------|-------------------------------|----------------------------|------------------------------|
| 1) 23 | 2) -24 | 3) -10 | 4) -33 |
| 5) 24 | 6) 16.469 | 7) 52.2 | 8) 71.82 |
| 9) 61.2 | 10) 58.9 | 11) $4\frac{1}{2}$ | 12) $9\frac{15}{77}$ |
| 13) $10\frac{1}{35}$ | 14) $1\frac{24}{35}$ | 15) $\frac{17}{20}$ | 16) $2\frac{5}{14}$ |
| 17) $1\frac{29}{40}$ | 18) $6\frac{67}{105}$ | 19) $6\frac{15}{22}$ | 20) $6\frac{8}{39}$ |
| 21) $2\frac{1}{2}$ | 22) $1\frac{5}{6}$ | 23) $8\frac{3}{14}$ | 24) $5\frac{3}{4}$ |
| 25) $3\frac{7}{15}$ | 26) 113 km ² | 27) 254 yd ² | 28) 79 mi ² |
| 29) 201 km ² | 30) 38 m | 31) 75 ft | 32) 47 m |
| 33) 13 km | 34) 42 ft ² | 35) 35.6 mi ² | 36) 26 m ² |
| 37) 75.6 yd ² | 38) 122.85 km ² | 39) 21.3 m ² | 40) 26.8 km ² |
| 41) 13.2 km ² | 42) 18.9 m ² | 43) 18.7 yd ² | 44) 125.44 in ² |
| 45) 144 km ² | 46) 28.09 in ² | 47) 1.96 cm ² | 48) 36 in ² |
| 49) 9.61 mi ² | 50) 80.85 cm ² | 51) 20.8 in ² | 52) 58.1 ft ² |
| 53) 12.6 in ² | 54) Median = 6 and Mean = 5.6 | | |
| 55) Median = 7 and Mean = 6.88 | | 56) 6 ft | 57) 20 cm |
| 58) $11 + 7x$ | 59) $-2r - 13$ | 60) $8b$ | 61) $-8n$ |
| 62) $16r$ | 63) $42 - 91v$ | 64) $-5x + 70$ | 65) $-5 - 50n$ |
| 66) $33a - 154$ | 67) $-24 + 16k$ | 68) $32b - 4$ | 69) $-88v - 59$ |
| 70) $-156 + 114x$ | 71) $-28x + 150$ | 72) $-74 - 6n$ | 73) tenths |
| 74) hundredths | 75) 3.87 | 76) 4.9 | 77) 7.1 |
| 78) 4.0 | 79) 9.9 | 80) -26 | 81) -86 |
| 82) 91 | 83) -10 | 84) -8 | 85) 6.5 |
| 86) -10 | 87) -1232 | 88) -1050 | 89) 384 |
| 90) 12 | 91) -105 | 92) 4 | 93) 19 |
| 94) 19 | 95) 54 | 96) 2 | 97) 47 |
| 98) -87 | 99) -45 | 100) -35 | 101) 5 |
| 102) 6^3 | 103) $\frac{1}{8}$ | 104) 2 | 105) Yes |
| 106) No | 107) 2, 3, 5, 6, 10 | 108) 5 | 109) $\{-6\}$ |
| 110) $\{-7\}$ | 111) $\{-13\}$ | 112) $\{-18\}$ | 113) $\{-5\}$ |
| 114) $\{-240\}$ | 115) $\{-14\}$ | 116) $\{5\}$ | 117) \$13.06 |
| 118) \$11.30 | 119) 270 | 120) 5 | 121) $\{1.33\}$ |
| 122) $\{7.5\}$ | 123) $\{16\}$ | 124) $\{1.78\}$ | 125) $\{-8\}$ |
| 126) $\{-14\}$ | 127) $\{-8\}$ | 128) $\{-10\}$ | |
| 129) 1, 2, 4, 89, 178, 356 | 130) 1, 5, 53, 265 | 131) $2^3 \cdot 3^3$ | |
| 132) $2^4 \cdot 5^2$ | 133) $2^3 \cdot 5 \cdot x$ | 134) $3^2 \cdot 5 \cdot n$ | 135) $2 \cdot 5^2 \cdot x^2$ |
| 136) $2^2 \cdot 3^2 \cdot n^2$ | 137) $\frac{2}{5}$ | 138) $-\frac{8}{87}$ | 139) $-1\frac{1}{4}$ |
| 140) -12 | 141) $\frac{4}{35}$ | 142) $2\frac{4}{7}$ | 143) $1\frac{7}{9}$ |

144) $16\frac{3}{16}$

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

152) 12

156) $12yx^2$

160) -5

164) 30

168) $16a^4b$

172) 0.7

176) 36.6%

180) 45

184) 2 in

145) $5\frac{7}{9}$

149) $\frac{8}{25}$

153) $24y^3$

157) 89

161) -2

165) 90

169) 7

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

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

181) 1

185) \$6

146) $-\frac{44}{45}$

150) $\frac{12}{13}$

154) $24v^2$

158) 107

162) 46

166) 60

170) 1

174) $\frac{43}{50}$

178) $\frac{61}{100}$

182) No

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

151) 19

155) a

159) -6

163) 60

167) $30y^2x^2$

171) 0.01

175) 80%

179) 4 in

183) No