

Summer Assignment

Evaluate each expression.

1) $(-4) + (-1)$

2) $3 - 2$

3) $4 + 3$

4) $1 - 1$

5) $(-2) + (-7)$

6) $(-3) - (-8)$

7) $1 - 8$

8) $8 - 0$

9) $(-4) + (-7) + 4$

10) $(-3) + 6 - (-4)$

11) $(-2) + 7 - (-2)$

12) $5 + (-7) - (-4)$

13) $5.6 - (-3.7)$

14) $4.1 - 3.4$

15) $(-5) - (-4.61)$

16) $0.4 - 1.6$

17) $\left(-\frac{2}{3}\right) - 3\frac{1}{3}$

18) $\left(-3\frac{3}{7}\right) + 2\frac{6}{7}$

$$19) 0 - \frac{2}{3}$$

$$20) \frac{4}{3} - 2\frac{3}{7}$$

$$21) 4\frac{1}{8} + 4\frac{2}{7}$$

$$22) 2\frac{6}{7} - 1\frac{5}{8}$$

Find each product.

$$23) (-8)(-1)$$

$$24) (7)(-7)$$

$$25) (-9)(8)$$

$$26) (5)(-7)$$

$$27) (-5)(-4)$$

$$28) (-10)(3)$$

$$29) (-6.22)(4)$$

$$30) (-0.4)(3.8)$$

$$31) (-9.3)(0.57)$$

$$32) (2.66)(-8.4)$$

$$33) \left(\frac{3}{2}\right)\left(-\frac{3}{2}\right)$$

$$34) \left(4\frac{5}{8}\right)\left(-\frac{3}{2}\right)$$

$$35) \left(-\frac{12}{7}\right)\left(-\frac{3}{5}\right)$$

$$36) \left(3\frac{5}{9}\right)\left(-\frac{1}{4}\right)$$

$$37) (-3)\left(\frac{2}{7}\right)$$

$$38) \left(3\frac{1}{4}\right)\left(-1\frac{3}{4}\right)$$

$$39) -3 \cdot 2 \cdot 4$$

$$40) -8 \cdot -9 \cdot 6$$

$$41) -7 \cdot 8 \cdot -3$$

$$42) 6 \cdot -1 \cdot -10$$

$$43) -4 \cdot 9 \cdot 4$$

$$44) -5 \cdot 9 \cdot 4$$

Find each quotient.

$$45) 70 \div -10$$

$$46) 90 \div -9$$

$$47) -14 \div -7$$

$$48) -80 \div -10$$

$$49) \frac{-40}{4}$$

$$50) \frac{-28}{-7}$$

$$51) \frac{30}{-10}$$

$$52) \frac{18}{-6}$$

$$53) -3.8 \div 7.5$$

$$54) -6.4 \div 7.2$$

$$55) \frac{-3.69}{-1.7}$$

$$56) \frac{-1.9}{-4.6}$$

$$57) \frac{-7}{6} \div -2\frac{4}{7}$$

$$58) \frac{5}{3} \div \frac{-2}{7}$$

$$59) -2 \div 4\frac{7}{8}$$

$$60) \frac{3}{7} \div -3\frac{1}{5}$$

$$61) \frac{-1\frac{7}{10}}{-\frac{10}{7}}$$

$$62) \frac{-2\frac{1}{2}}{2}$$

$$63) \frac{-2\frac{1}{2}}{-2\frac{1}{7}}$$

$$64) \frac{-\frac{2}{9}}{2\frac{1}{2}}$$

65) A hungry elf ate 27 of your muffins. That was $\frac{9}{10}$ of all of them! With how many did you start?

66) A colony of ants carried away 20 of your muffins. That was $\frac{5}{6}$ of all of them! With how many did you start?

67) Last week Ndiba ran 27.1 miles more than Amy. Ndiba ran 34.3 miles. How many miles did Amy run?

68) Carlos bought four toy cars for a total of \$15.72. How much did each toy car cost?

69) Paul and his best friend found some money under the couch. They split the money evenly, each getting \$28.96. How much money did they find?

70) Norachai ran 35 miles less than Asanji last week. Norachai ran 13 miles. How many miles did Asanji run?

71) Last week Joe ran 13.2 miles more than Brenda. Joe ran 27 miles. How many miles did Brenda run?

72) Last week Jose ran 35 miles less than Kristin. Jose ran 9 miles. How many miles did Kristin run?

Evaluate each expression.

73) $(-8) - 2 \times (-1) \times 10$

74) $(-10)(1 - 6 - (-9))$

75) $(-6)(8 - (-7)) + 4$

76) $3 + 2 + 7 \times 6$

77) $7 \times 6 + 10 - 4$

78) $4 - 4((-6) - 10)$

79) $\frac{2^2}{4}$

80) $\frac{(-27) \times 2}{-6}$

Round each to the place indicated.

81) 79.20118; ten-thousandths

82) 4.954718; ten-thousandths

83) 556.90; ones

84) 47.13; ones

85) 3.58; tenths

86) 59,006.96; hundreds

87) 9.88; ones

88) 4.19361; hundredths

89) 6.855385; ten-thousandths

90) 88.987534; ten-thousandths

91) 28; tens

92) 7,165.391; tens

93) 41.29860; hundredths

94) 6,063.3; tens

95) 1.3476; hundredths

96) 88.62; ones

Simplify each expression.

97) $9p - 4 + 2p + 9$

98) $3n - 6n$

99) $9 + 2a + 1 - 10a$

100) $-3k + 9k$

101) $n - 1 + 4n$

102) $9 + 5a - 10 + 9a$

103) $x - \frac{8}{5} + \frac{13}{5}x + 1$

104) $-\frac{4}{3}k + 1 - 2\frac{5}{8}$

105) $\frac{2}{5}k - \frac{13}{8} + \frac{43}{8}k + 3$

106) $2 + 9.968n - 2.3n$

$$107) -1.9k + 7.9k$$

$$108) 1 + 0.2v - 7.36$$

$$109) -9(x + 2)$$

$$110) 2(1 + n)$$

$$111) 9(1 + 7n)$$

$$112) -\frac{3}{2}\left(\frac{1}{10}r + \frac{14}{3}\right)$$

$$113) -\frac{10}{7}\left(a + \frac{4}{7}\right)$$

$$114) \left(-6x + \frac{1}{2}\right) \cdot -\frac{3}{4}$$

$$115) \frac{1}{2}\left(\frac{3}{2}v + 1\right)$$

$$116) \frac{1}{9}\left(\frac{12}{7}n + 1\right)$$

Solve each equation.

$$117) 2 = \frac{k}{16}$$

$$118) -14k = 238$$

$$119) a - (-17) = -3$$

$$120) -7x = 140$$

$$121) 8 + r = 27$$

$$122) \frac{n}{9} = -\frac{19}{9}$$

$$123) -30 = n - 20$$

$$124) m + 17 = 0$$

125) $2 = p + 6$

126) $n - (-9) = 26$

127) $-228 = -19n$

128) $16 + x = 20$

Solve each proportion.

129) $\frac{9}{x} = \frac{7}{8}$

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

131) $\frac{8}{r} = \frac{5}{10}$

132) $\frac{10}{n} = \frac{6}{8}$

133) $\frac{4}{2} = \frac{8}{x}$

134) $\frac{x}{10} = \frac{6}{3}$

135) $\frac{m}{5} = \frac{8}{10}$

136) $\frac{8}{7} = \frac{n}{3}$

137) $\frac{8}{3} = \frac{n}{6}$

138) $\frac{4}{5} = \frac{n}{9}$

Solve each equation.

139) $13 = 5 + 8n$

140) $-46 = 8r - 6$

141) $-9 + 9m = 162$

142) $\frac{-1 + m}{-6} = 2$

$$143) 10 + \frac{n}{10} = 8$$

$$144) -2 + \frac{n}{3} = -6$$

$$145) -8 = \frac{m}{4} - 6$$

$$146) -7n + 4 = 39$$

$$147) -\frac{9}{5} + \frac{1}{4}x = -1\frac{43}{85}$$

$$148) \frac{1}{10}n + 2\frac{2}{3} = 2\frac{193}{195}$$

149) The sum of three consecutive even numbers is 54. What is the smallest of these numbers?

150) Half of your baseball card collection got wet and was ruined. You bought 17 cards to replace some that were lost. How many did you begin with if you now have 27?

151) You bought a magazine for \$5.27 and seven candy bars. You spent a total of \$19.83. How much did each candy bar cost?

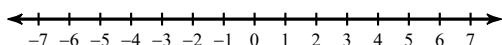
152) Mei rented a bike from Kali's Bikes. It cost \$19.40 plus \$7.50 per hour. If Mei paid \$41.90, then she rented the bike for how many hours?

153) Abhasra spent half of her weekly allowance playing mini-golf. To earn more money her parents let her mow the lawn for \$7.75. What is her weekly allowance if she ended with \$11.15?

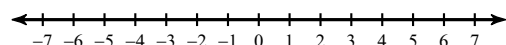
154) You had \$20.50 to spend on three notebooks. After buying them you had \$12.34. How much did each notebook cost?

Draw a graph for each inequality.

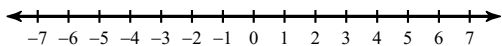
$$155) -2 \leq n$$



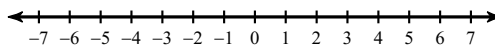
$$156) x > -6$$



157) $x \leq 4$

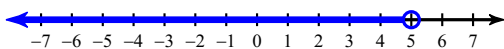


158) $0 > v$

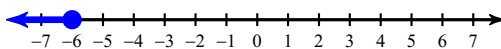


Write an inequality for each graph.

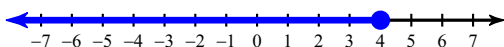
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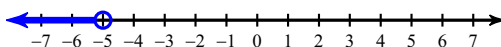
160)



161)

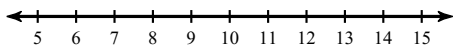


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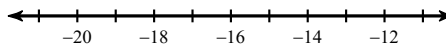


Solve each inequality and graph its solution.

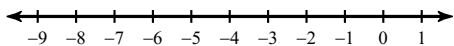
163) $6v < 66$



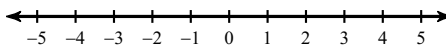
164) $-156 \geq 12n$



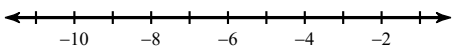
165) $10n \leq -50$



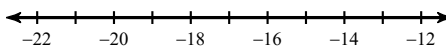
166) $12 \geq -12x$



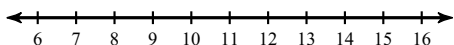
167) $\frac{-9+n}{4} > -4$



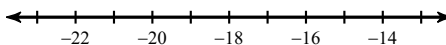
168) $9 < 10 + \frac{a}{14}$



169) $-2 + \frac{p}{3} < 2$

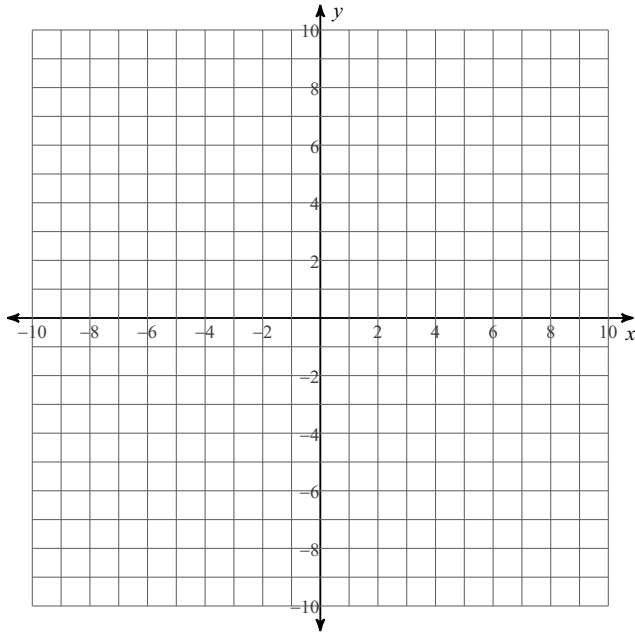


170) $\frac{x+10}{2} \geq -5$

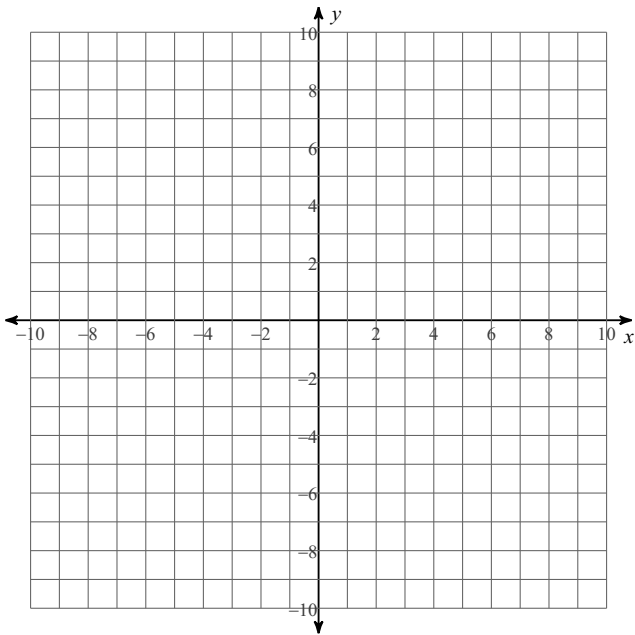


Plot each point.

171) $D(-10, 6)$ $E(7, -7)$ $F(-1, 1)$
 $G(8, 10)$ $H(3, 10)$

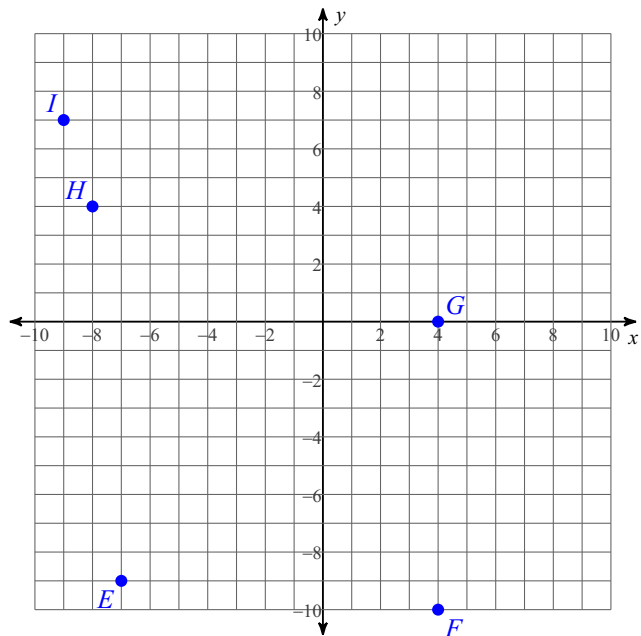


172) $I(-8, 9)$ $H(7, -6)$ $G(-4, -3)$
 $F(-1, 3)$ $E(-1, -9)$

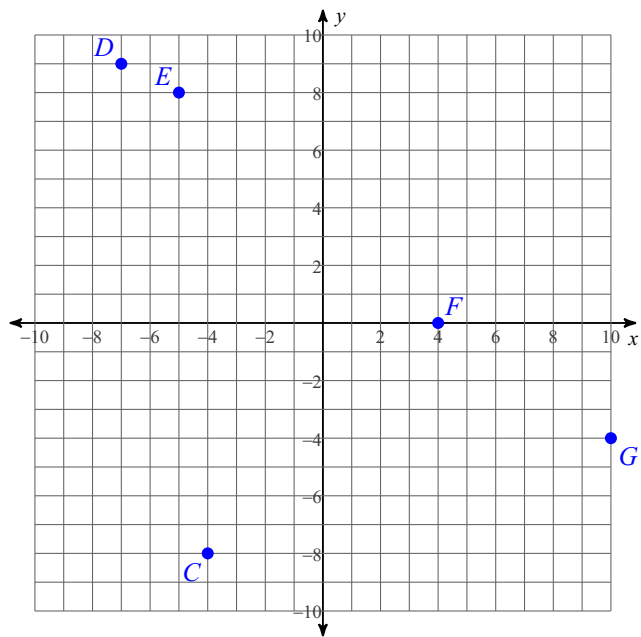


State the coordinates of each point.

173)

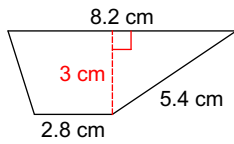


174)

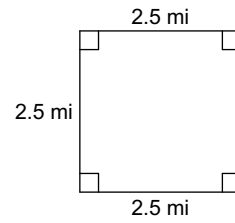


Find the area of each.

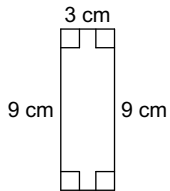
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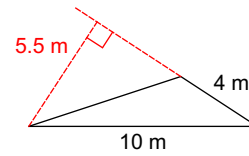
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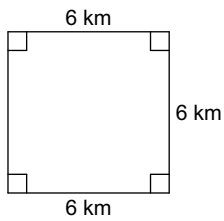
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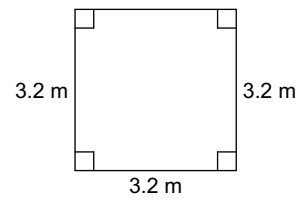
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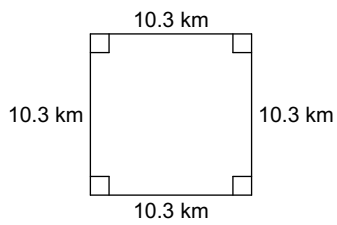
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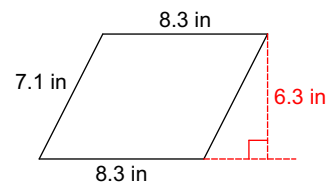
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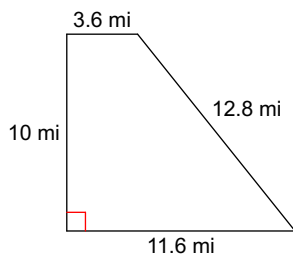
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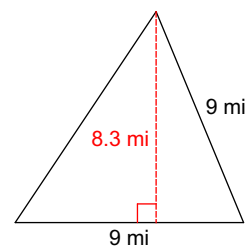
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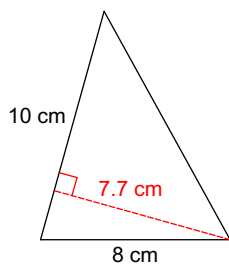
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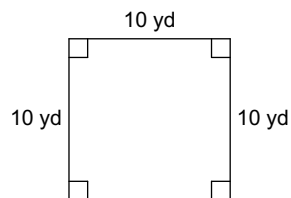
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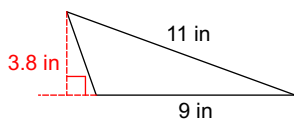
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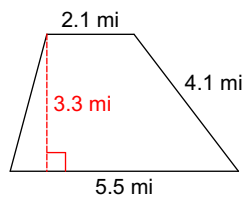
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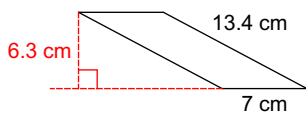
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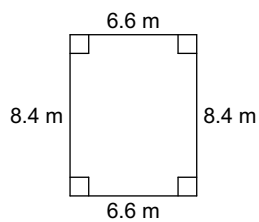
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189)

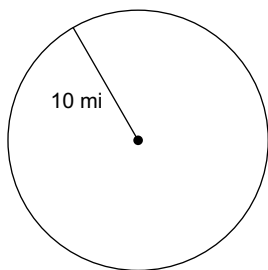


190)



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

191)



192)

