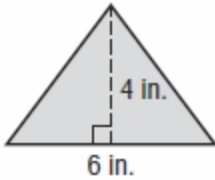


Incoming 7th Grade Summer Assignment 2018

Find the area of each figure.

1.



Solve each equation. Check your solution.

2. **HAIR** Anna's hair is 24 inches long. This is 12 inches longer than her sister's. Write and solve an addition equation to find the length of her sister's hair.

Choose the correct graph of each point on the coordinate plane.

3. $(-4, -2)$

4. **CLOTHING** At the ticket booth at a Florida Marlins game, 15 people wore turquoise and 24 people wore gray. What is the ratio of people who wore turquoise to the people who wore gray in simplest form?

Define a variable then write each phrase as an algebraic expression.

5. three times the number of berries

Name: _____ Class: _____ Date: _____

Incoming 7th Grade Summer Assignment 2018

Estimate each product.

6. 3.8×4

Find the reciprocal of each number.

7. $\frac{1}{2}$

Define a variable then write each phrase as an algebraic expression.

8. 9 years older than Odile

Multiply.

9. 3.14×0.06

Estimate each quotient.

10. $31.2 \overline{)93.6}$

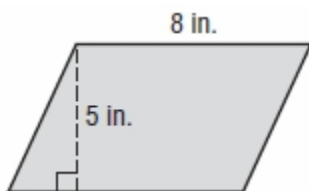
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Is the given value a solution of the inequality?

11. $x + 2 > 12, x = 5$

Find the area of each figure.

12.

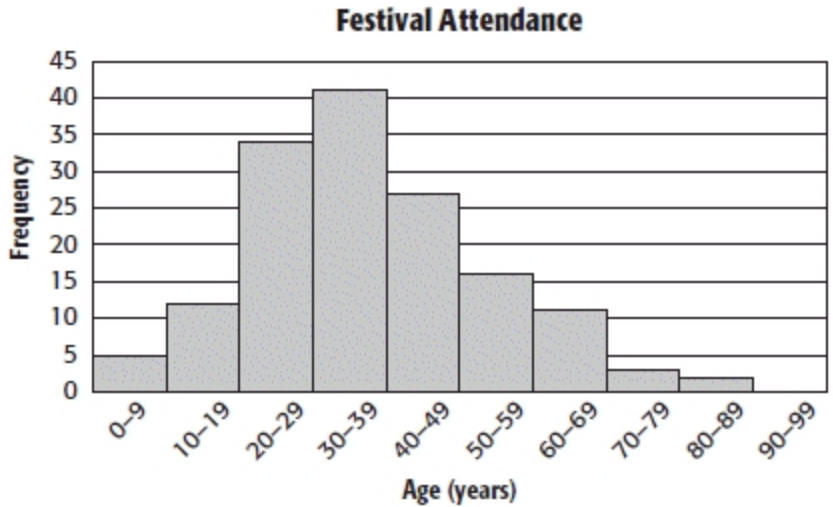


Evaluate each expression.

13. **TEMPERATURE** The low temperature in one city was $-4F$. The low temperature in another city was $8F$. Write an inequality to compare the temperatures.

Incoming 7th Grade Summer Assignment 2018

Refer to the histogram that shows the number of attendees at a festival according to various age intervals.



14. Which age interval had more attendees: 20–29 or 40–49?

Use the Distributive Property to rewrite each algebraic expression.

15. $2(a + 10)$

Determine whether the two expressions are equivalent. If so, tell what property is applied. If not, explain why.

16. 19×6 and 6×19

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Replace each \bigcirc with $<$, $>$, or $=$ to make a true statement.

17. $\frac{2}{3} \bigcirc \frac{3}{5}$

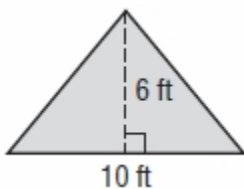
Divide. Write in simplest form.

18. $2\frac{1}{2} \div 3\frac{1}{3}$

19. Solve $x + 3 \geq 9$.

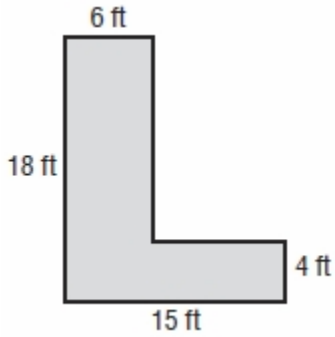
Find the area of each figure.

20.



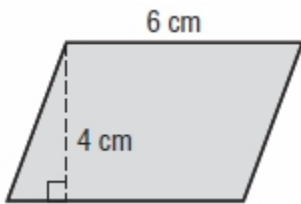
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21.



Find the area of each figure.

22.



Multiply. Write in simplest form.

23. $\frac{1}{3} \times 1\frac{1}{3}$

24. $\frac{2}{3} \times 15$

Incoming 7th Grade Summer Assignment 2018

The table shows the top speeds of sixteen roller coasters.

Top Speeds of Roller Coasters (mph)			
80	40	48	70
93	95	60	40
57	40	65	90
92	72	60	72

25. Find the median, first quartile, third quartile, and interquartile range.

26. **GRASS SEED** Mr. Ernesto spent \$72 for 3 bags of grass seed. How much did he spend on each bag?

Write each fraction as a decimal.

27. $\frac{4}{5}$

Estimate each product.

28. $3\frac{7}{8} \times 10\frac{1}{10}$

Incoming 7th Grade Summer Assignment 2018

29. $\frac{7}{8} \times \frac{3}{5}$

Find the mean, median, and mode for each data set.

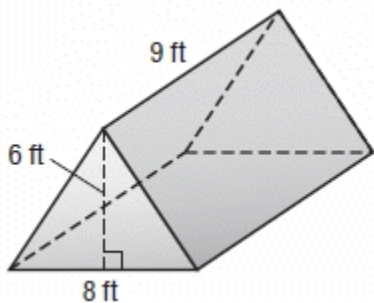
30. Number of pages read: 11, 8, 2, 10, 11

31. Find the value of the tenth term in the sequence.

Position	1	2	3	4	10
Value of Term	4	5	6	7	■

Find the volume of each figure.

32.

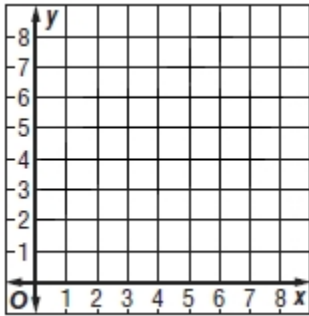


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Solve each equation. Check your solution.

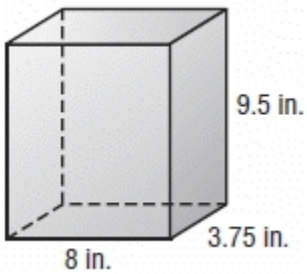
33. $f - 4 = 9$

34. Graph $y = x + 2$.



Find the volume of each figure.

35.



Incoming 7th Grade Summer Assignment 2018

Solve each equation. Check your solution.

36. $y + 6 = 10$

Write each fraction as a percent.

37. $\frac{1}{5}$

Divide.

38. $0.32 \div 0.4$

Use the table. The table shows the top speeds of sixteen roller coasters.

Top Speeds of Roller Coasters (mph)			
80	40	48	70
93	95	60	40
57	40	65	90
92	72	60	72

39. What percent of roller coasters had speeds 85 miles per hour or more?

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Write each percent as a decimal.

40. 12%

Write each ratio as a fraction in simplest form.

41.



baseballs to basketballs

Evaluate each expression.

42. $|30 - 5| + |-7|$

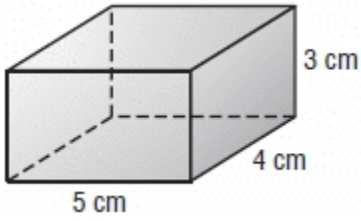
Solve each equation. Check your solution.

43. **CHARITY** This year, James raised \$95 for an animal shelter. This is 5 times the amount he saved. The equation $5x = 95$ can be used to find last year's fundraising amount. Find last year's fundraising amount.

Incoming 7th Grade Summer Assignment 2018

Find the volume of each figure.

44.



Write each fraction as a decimal.

45. $\frac{1}{25}$

Evaluate the expression if $a = 4$ and $b = 3$

46. $a + 8 - b$

Identify the solution of each equation.

47. $25 - t = 15$

Find the mean, median, and mode for each data set.

48. points scored in basketball games: 14, 37, 28, 56, 47, 37, 43, 50

Incoming 7th Grade Summer Assignment 2018

Write each percent as a decimal.

49. 64%

Use the table. The table shows the top speeds of sixteen roller coasters.

Top Speeds of Roller Coasters (mph)			
80	40	48	70
93	95	60	40
57	40	65	90
92	72	60	72

50. Find the median and the measures of variability.

Solve each equation. Check your solution.

51. $15 = \frac{x}{3}$

52. Solve $x - 1 \leq 11$.

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Find the value of each expression.

53. $16 - 3^2$

Find the percent of each number.

54. 115% of 212

Find each quotient.

55. $0.09 \div 0.01$

Find each product.

56. $6.65 \times 10,000$

Identify the solution of each equation.

57. $b + 8 = 14$

58. **SPAGHETTI** Plates at a spaghetti supper fundraiser cost \$6 each. Write a function rule to find the cost of any number of plates p .

Incoming 7th Grade Summer Assignment 2018

Write an integer for each situation.

59. elevation of 145 feet

Use the Distributive Property to rewrite each algebraic expression.

60. $5(y - 5)$

Write each ratio as a fraction in simplest form.

61. 12 kittens to 15 puppies

Solve each equation. Check your solution.

62. **SPELLING** Nico had 9 words correct on his weekly spelling test. This is 1 less than what he had correct the week before. Write and solve a subtraction equation to find the number of spelling words Nico had correct the week before.

Divide.

63. $8.1 \div 3$

64. Graph $n < 8$ on a number line.

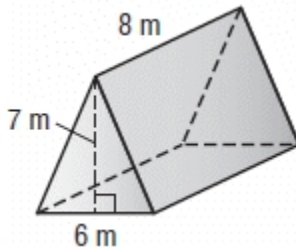
Incoming 7th Grade Summer Assignment 2018

Multiply. Write in simplest form.

65. $6 \times \frac{2}{3}$

Find the volume of each figure.

66.



Write each percent as a fraction in simplest form.

67. 48%

Multiply.

68. 5.6×8

Choose the correct graph of each point on the coordinate plane.

69. $(-1, 1)$

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70. The table shows the weights of various dogs that visited a vet's office one day.

Dog's Weight (lb)	
14	54
27	45
19	27

What is the mean absolute deviation of the data? Round to the nearest whole number.

Choose the correct graph of each point on the coordinate plane.

71. (2, 4)

Is the given value a solution of the inequality?

72. $x + 5 > 7$, $x = 3$

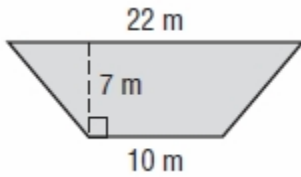
Divide.

73. $4.9 \div 7$

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Find the area of each figure.

74.

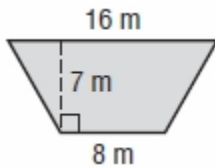


Write each decimal as a fraction in simplest form.

75. 0.4

Find the area of each figure.

76.



Multiply.

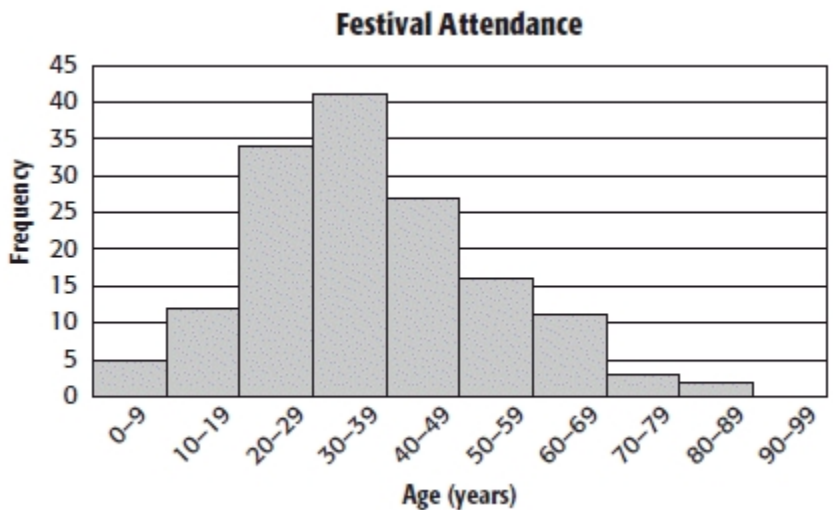
77. 6.8×1.5

Incoming 7th Grade Summer Assignment 2018

Define a variable then write each phrase as an algebraic expression.

78. one half of the total cost

Refer to the histogram that shows the number of attendees at a festival according to various age intervals.



79. Which age interval had the greatest number of attendees?

Choose the correct graph of each point on the coordinate plane.

80. $(4, -3)$

Evaluate each expression.

81. $|-2| + |10 + 2|$

Name: _____ Class: _____ Date: _____

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Write each decimal as a percent.

82. 0.73

83. The number of text messages Kumar sent this week are shown below.

70, 50, 54, 89, 67

What is the mean absolute deviation of the data?

Estimate each product.

84. $\frac{1}{5} \times 24$

Estimate each product.

85. 26.5×12

Incoming 7th Grade Summer Assignment 2018

Use the table. The table shows the top speeds of sixteen roller coasters.

Top Speeds of Roller Coasters (mph)			
80	40	48	70
93	95	60	40
57	40	65	90
92	72	60	72

86. Make a box plot of the data.

Divide. Write in simplest form.

87. $9 \div 1\frac{1}{9}$

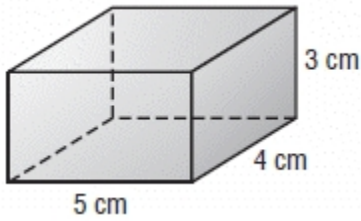
Find the percent of each number.

88. 6% of 38

Incoming 7th Grade Summer Assignment 2018

Find the surface area of the figure.

89.



Determine whether the two expressions are equivalent. If so, tell what property is applied. If not, explain why.

90. 14 and $14 + 0$

91. **MUSIC** Mangi surveyed students about their favorite types of music. Find the ratio of students who chose dance to the total number of students surveyed.

Favorite Music	
Pop	7
Country	5
Dance	4

Use the Distributive Property to rewrite each algebraic expression.

92. $6(d + 7)$

Incoming 7th Grade Summer Assignment 2018

Solve each equation mentally.

93. $9p = 81$

Find each quotient.

94. $2.374 \div 100$

Evaluate the expression if $a = 4$ and $b = 3$

95. $5a$

Is the given value a solution of the inequality?

96. $10 - x < 5, x = 7$

Find the mean, median, and mode for each data set.

97. Points scored per volleyball game: 2, 0, 4, 8, 3, 4

Divide. Write in simplest form.

98. $\frac{9}{10} \div 9$

Incoming 7th Grade Summer Assignment 2018

Replace each \bigcirc with $<$, $>$, or $=$ to make a true statement.

99. $\frac{1}{8} \bigcirc \frac{1}{4}$

Divide. Write in simplest form.

100. $4\frac{1}{2} \div 2\frac{7}{10}$

Find the reciprocal of each number.

101. $\frac{3}{5}$

Write each percent as a fraction in simplest form.

102. 32%

Incoming 7th Grade Summer Assignment 2018

103. Complete the function table.

Input (x)	$x + 10$	Output (y)
5	$5 + 10$	
8	$8 + 10$	
11	$11 + 10$	

Write each fraction as a decimal. Use bar notation if necessary.

104. $\frac{4}{9}$

Divide.

105. $35.7 \div 2.1$

Write each decimal as a fraction in simplest form.

106. 0.75

Incoming 7th Grade Summer Assignment 2018

Write each fraction as a decimal. Use bar notation if necessary.

107. $-\frac{11}{12}$

Solve each equation. Check your solution.

108. $8d = 48$

Write an integer for each situation.

109. \$50 withdrawal

Write each decimal as a percent.

110. 0.85

Multiply.

111. 9×7.03

Find each product.

112. 4.32×0.01

Incoming 7th Grade Summer Assignment 2018**Solve each equation mentally.**

113. $\frac{y}{7} = 2$

Divide. Write in simplest form.

114. $3 \div \frac{2}{5}$

Solve each equation. Check your solution.

115. $10 = \frac{r}{5}$

Use the ratio table to solve the problem.

- 116.
- MIXTURE**
- A mixture requires 4 cups of water for every 7 cups of flour used. How many cups of water should be used with 28 cups of flour?

Cups of Flour	7	28
Cups of Water	4	■

Incoming 7th Grade Summer Assignment 2018

The table shows the top speeds of sixteen roller coasters.

Top Speeds of Roller Coasters (mph)			
80	40	48	70
93	95	60	40
57	40	65	90
92	72	60	72

117. Find the range.

Find the value of each expression.

118. $8 + 9 \times 3 - 4$

Find the mean, median, and mode for each data set.

119. ages of children taking ceramics classes: 8, 10, 9, 12, 12, 15, 11

Find the reciprocal of each number.

120. 4
