

Name _____

Date _____

SUMMER MATH FOR INCOMING 7TH GRADE HONORS

- | | | | |
|-----------|-----------|-----------|------------|
| 1. _____ | 26. _____ | 51. _____ | 76. _____ |
| 2. _____ | 27. _____ | 52. _____ | 77. _____ |
| 3. _____ | 28. _____ | 53. _____ | 78. _____ |
| 4. _____ | 29. _____ | 54. _____ | 79. _____ |
| 5. _____ | 30. _____ | 55. _____ | 80. _____ |
| 6. _____ | 31. _____ | 56. _____ | 81. _____ |
| 7. _____ | 32. _____ | 57. _____ | 82. _____ |
| 8. _____ | 33. _____ | 58. _____ | 83. _____ |
| 9. _____ | 34. _____ | 59. _____ | 84. _____ |
| 10. _____ | 35. _____ | 60. _____ | 85. _____ |
| 11. _____ | 36. _____ | 61. _____ | 86. _____ |
| 12. _____ | 37. _____ | 62. _____ | 87. _____ |
| 13. _____ | 38. _____ | 63. _____ | 88. _____ |
| 14. _____ | 39. _____ | 64. _____ | 89. _____ |
| 15. _____ | 40. _____ | 65. _____ | 90. _____ |
| 16. _____ | 41. _____ | 66. _____ | 91. _____ |
| 17. _____ | 42. _____ | 67. _____ | 92. _____ |
| 18. _____ | 43. _____ | 68. _____ | 93. _____ |
| 19. _____ | 44. _____ | 69. _____ | 94. _____ |
| 20. _____ | 45. _____ | 70. _____ | 95. _____ |
| 21. _____ | 46. _____ | 71. _____ | 96. _____ |
| 22. _____ | 47. _____ | 72. _____ | 97. _____ |
| 23. _____ | 48. _____ | 73. _____ | 98. _____ |
| 24. _____ | 49. _____ | 74. _____ | 99. _____ |
| 25. _____ | 50. _____ | 75. _____ | 100. _____ |

Name: _____ Class: _____ Date: _____ ID: A

Summer Math Skills for 6th Grade going into 7th Grade

Give the place and value of the underlined digit. Then round the number to that place.

1. 4561.23

2. 875.43

3. 87.344

4. 91.8756

Order the numbers from least to greatest.

5. 4.3, 3.4, 4.5, 3.45

6. 0.71, 0.75, 0.7, 0.715

Perform the indicated operation.

7. $4.2 + 1.9$

8. $18.24 + 22.09$

9. $8.6 - 3.45$

10. $8.21 - 5.19$

11. 9.3×0.6

12. 15.2×7.1

13. $1.5 \div 0.3$

14. $18.25 \div 7.3$

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Write the mixed number as an improper fraction.

15. $5\frac{3}{4}$

16. $6\frac{4}{13}$

Write the improper fraction as a mixed number.

17. $\frac{23}{6}$

18. $\frac{27}{11}$

Find the product.

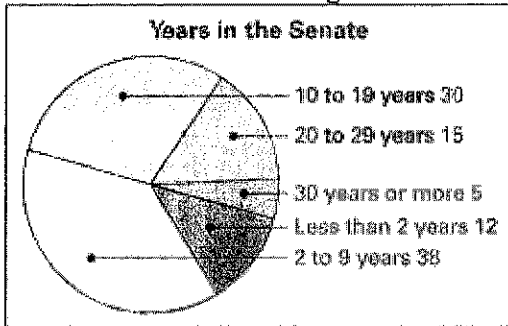
19. $8 \times \frac{3}{4}$

20. $\frac{5}{6} \times 30$

21. $4 \times \frac{7}{9}$

22. $\frac{4}{7} \times 9$

Use the circle graph which shows the number of years that a senator had worked in the U.S. Senate at the start of the 104th Congress.



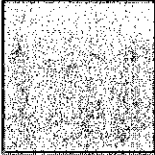
23. How many senators had worked in the U.S. Senate for 10 to 19 years?
24. How many senators had worked in the U.S. Senate for 20 years or more?
25. How many senators had worked in the U.S. Senate for 9 years or less?
26. Find the perimeter of a rectangle with a length of 5 centimeters and a width of 3 centimeters.

Copy and complete the statement.

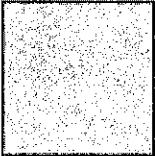
27. $9 \text{ ft} = \underline{?} \text{ yd}$ $(3 \text{ ft} = 1 \text{ yd})$

28. $560 \text{ mm} = \underline{?} \text{ cm}$ $(1 \text{ cm} = 10 \text{ mm})$

Find the area of the square. $A = L \times W$

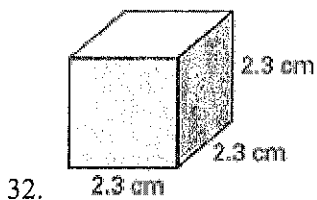
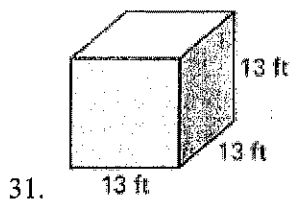
29.  5 yd

5 yd

30.  11 km

11 km

Find the volume of the cube. $V = L \times W \times H$



Copy and complete the statement using $<$, $>$, or $=$.

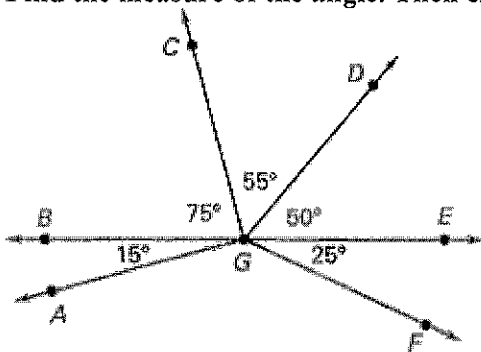
33. 1.5 tons ? 3100 lb

34. 6.7 kg ? 6700 g

35. 16 fl oz ? 2 c

36. 31,150 mL ? 3 L

Find the measure of the angle. Then classify the angle as *acute*, *right*, *obtuse*, or *straight*.



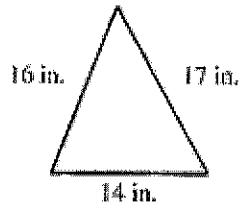
37. $m\angle AGC$

38. $m\angle CGF$

39. $m\angle DGF$

40. $m\angle BGE$

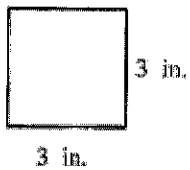
Find the perimeter. (The figure may not be drawn to scale.)



41.

- a. 119 in.
- b. 47 in.
- c. 116 in.
- d. 50 in.

42. What is the perimeter of the square?



43. The perimeter of a square is 32 feet. Find the area of the square.

- a. 64 ft^2
- b. 65 ft^2
- c. 9 ft^2
- d. 8 ft^2

Identify the property illustrated in the statement.

44. $5b(1) = 5b$

- a. Identity property of addition
- b. Identity property of multiplication
- c. Commutative property of multiplication
- d. Commutative property of addition

45. $-2(7x) = (-2 \cdot 7)x$

- a. Associative property of addition
- b. Commutative property of addition
- c. Associative property of multiplication
- d. Commutative property of multiplication

Evaluate the expression when $x = 20$ and $y = -3$.

46. $3x + 2y + 2x$

- _____ 47. The recipe you are following calls for 3 quarts of water. You have 3 pints of water. Do you have enough water? If you have enough water, how much extra do you have? If you do not have enough, how much more do you need?
- (1 quart = 2 pts)
- a. Yes; 2 pt
b. Yes; 3 pt
c. No; 2 pt
d. No; 3 pt

48. The length of a college basketball court is 94 feet. Use a conversion factor to find the length in inches.

Perform the indicated operation.

_____ 49. $547.54 + (-18.2)$

a. 565.74	c. 529.34
b. 54,572	d. 365.54

_____ 50. $7.02 \div 0.009$

a. 0.7	c. 7.8
b. 780	d. 78

51. $-8(2.25)$

Solve the equation.

_____ 52. $\frac{d}{9} = 4.3$

a. 38.7	c. 37.6
b. 39.8	d. 30.6

53. $1.87 = x + 11.04$

54. $3.87 + f = 16.86$

Copy and complete the statement using $<$ or $>$.

55. $-2 \underline{?} -15$

56. $25 \underline{?} - 52$

Tell whether the statement is *true* or *false*. Explain your reasoning.

57. $-54 < -56$

Order the integers from least to greatest.

58. $-265, 340, -180, 240, -325$

Complete the statement using $<$, $>$, or $=$.

____ 59. $|12| \underline{?} |-5|$

a. $<$

b. $>$

c. $=$

____ 60. Which of the following is a true statement?

a. $|-7| < |3|$

b. $|-7| > |3|$

c. $|-7| < |7|$

d. $0 > |-3|$

Find the absolute value of the number.

61. -10

62. An elevator started on the 6th floor. It went up 8 floors, down 7 floors, up 7 floors, and down 2 floors. On what floor did the elevator finally stop?

Find the difference.

63. $6 - (-8)$

64. $7 - (-18)$

65. $1 - (-14)$

66. $9 - (-6)$

67. $3 - (-12)$

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68. $-14 - (-14)$

Find the product.

69. $-3(-92)$

70. $-8(3)(6)$

Solve the equation using mental math.

71. $6b = -42$

72. At noon the temperature was 14°C . If the temperature then dropped 4°C per hour, what was the temperature after 6 hours?

Find the quotient.

73. $-252 \div (-3)$

74. $-32 \div (4)$

Find the mean of the integers.

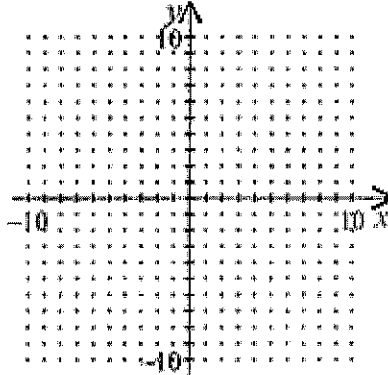
75. $-12, 7, -6, -15, 1$

Use the distributive property to write an equivalent expression. Check your answer.

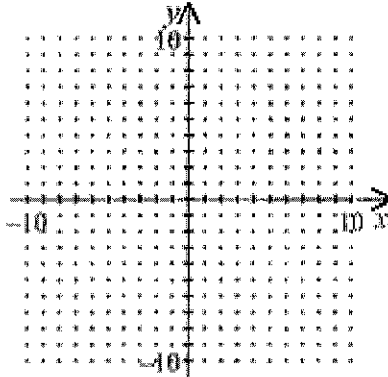
76. $13(2 + 2)$

Plot the point and describe its location.

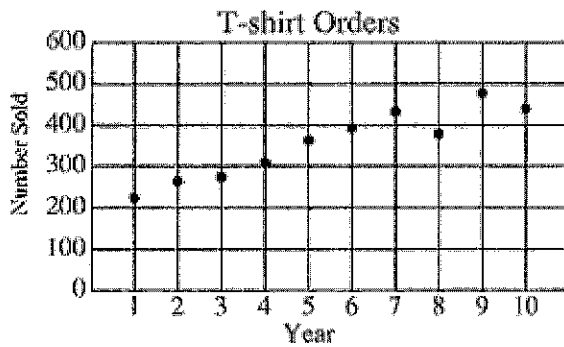
77. $C(-6, 0)$



78. $D(-7, 3)$

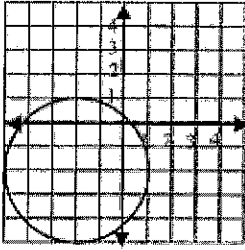


79. The scatter plot shows the number of T-shirts sold by a company during their first 10 years in business. Which conclusion is best supported by the graph?



- More T-shirts were sold in the sixth year than in the tenth year.
- The number of T-shirts sold doubled in the first 5 years.
- There was a steady decline in the number of T-shirts sold in the last 3 years.
- The company sold almost as many T-shirts in the fifth year as it did in the eighth year.

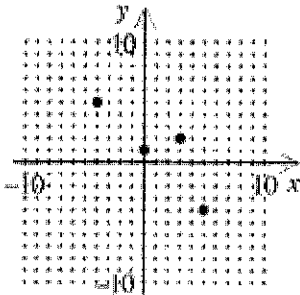
80. Which of the following ordered pairs represents a point that lies within the circle?



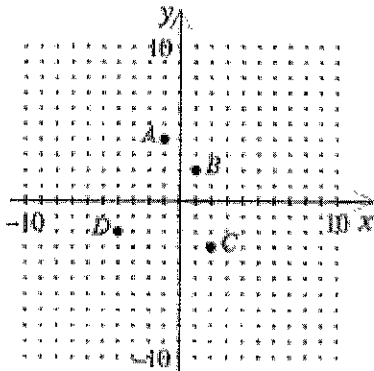
- a. (2, 2)
- b. (2, -2)
- c. (-2, 3)
- d. (-2, -2)

81. **GRIDDED RESPONSE** Grid the correct answer on a separate gridding sheet.

What is the x -coordinate of the point in quadrant 4?

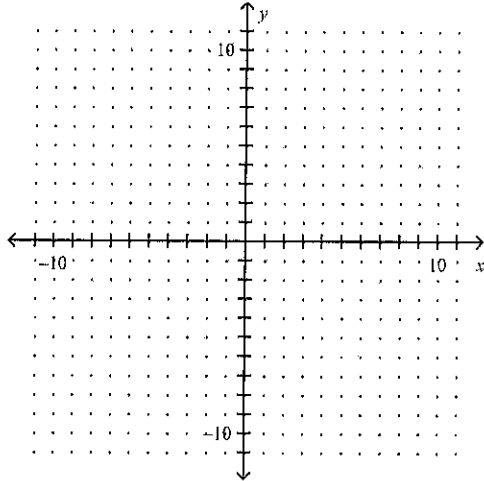


82. Write the coordinates of the points A , B , C , and D .



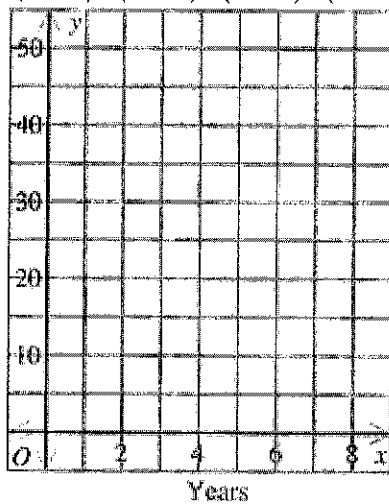
Plot and connect the points to form a rectangle. Then find the length, width, and area of the rectangle.

83. $A(8, -3)$, $B(8, 2)$, $C(4, 2)$, $D(4, -3)$



84. A company employee has recorded information on the size of the company over the last 8 years. The ordered pairs show the years in business and the number of employees. Make a scatter plot of the data. Then make a conclusion about the data.

$(1, 15)$, $(2, 21)$, $(3, 27)$, $(4, 28)$, $(5, 39)$, $(6, 40)$, $(7, 44)$, $(8, 52)$

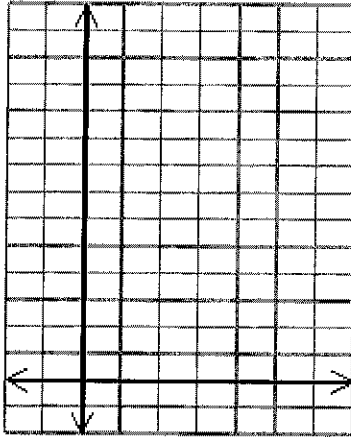


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85. The weights of ten Holstein calves of different ages are given in the table. Make a scatter plot of the data. Put age on the horizontal axis. Then describe any pattern that you see in the scatter plot.

Age (months)	2	2	3	4	5	6	7	7
Weight (pounds)	230	250	320	420	480	570	660	680



Evaluate the expression for the given value of the variable.

- _____ 86. $29 - x$ when $x = 9$
a. 19
b. 38
c. 20
d. 37
- _____ 87. $4a$ when $a = 2$
a. 16
b. 6
c. 8
d. 2
- _____ 88. $\frac{n}{4}$ when $n = 36$
a. 144
b. 36
c. 4
d. 9
89. $g - 1$ when $g = 18$
90. $\frac{10}{s}$ when $s = 2$

Evaluate the expression when $w = 8$, $x = 15$, $y = 4$, and $z = 3$.

91. $\frac{x}{z}$

92. $w + y$

Write the product as a power.

93. $6 \cdot 6 \cdot 6 \cdot 6 \cdot 6 \cdot 6 \cdot 6$

Evaluate the power.

____ 94. 1^4
a. 1 b. 8 c. 4 d. 2

95. 0^5

Copy and complete the statement using $<$, $>$, or $=$.

____ 96. 3^6 ? 6^3
a. $>$ b. $=$ c. $<$

____ 97. 100 ? 2^7
a. $>$ b. $<$ c. $=$

Evaluate the expression for the given value of the variable.

____ 98. a^3 when $a = 4$
a. 16 b. 12 c. 32 d. 64

Write the power in words.

99. 8^4

100. What is 4 written as a power?