7th Grade Math Summer Packet

The summer packet is meant to give you a jump start on the year. Some problems may seem extremely easy and some may cover skills you didn't get to last year. Don't worry about it. We'll go over the summer packet the first week of school. Have your questions ready.

DO NOT USE A CALCULATOR!!!!!!

FYI---- The summer packet is the **Post-Course Test** from your 6th-grade text.



Date

Post-Course Test

For use after Chapter 13

Find the sum, difference, product, or quotient.

4.
$$37 \times 22$$

6.
$$88 \times 3$$

6.
$$88 \times 3$$
 7. $153 \div 9$

8.
$$18 + 294$$

9. You are buying T-shirts for the school store to sell. The T-shirts come in boxes of 48 each. You buy 11 boxes, Estimate the number of T-shirts you buy.

Find the value of the power.

11. 6 cubed

Evaluate the expression.

14.
$$14 + 8 \div 2$$

15.
$$\frac{25 \times 4 + 44}{6^2}$$

Evaluate the expression when x = 3 and y = 7.

17:
$$6x \div 2 + y$$

18.
$$y^2 - 2x$$

Find the perimeter and area of the rectangle or square.

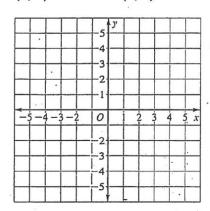
- 21. a square that is 7 in. by 7 in.
- 22. a rectangle that is 12 ft by 9 ft

Answers

- 9. _____
- 10. _____
- 12. _____
- 13. _____ 14. _____
- 15. _____
- 16. _____
- 17. _____
- 18.
- 21.

For use after Chapter 13

Graph the points on the same coordinate grid.



Find the mean, median, mode(s), and range of the data.

- 28. Number of pieces of mail: 4, 8, 6, 2, 0, 3, 7, 5, 8, 2
- 29. Average inches of rainfall each month:

Write the number: as a decimal.

- 30. eighty-nine ten thousandths
- **31.** twenty-six and fourteen hundredths

Write the decimal in words.

Complete the statement with <, >, or =.

Round the decimal as specified.

Find the sum or difference.

Find the product.

Answers



Date

Post-Course Test

For use after Chapter 13

Answers

Find the product or quotient.

49. 8.4×0.79

50. 4.3×0.005

51. $0.45 \div 0.09$

52. 5.76 ÷ 1.2

49. _____

- Find the product or quotient using mental math.
- **53.** 21.3 × 100

54. 58.74×0.01

55. 715 ÷ 1000

56. $0.36 \div 0.1$

Copy and complete the statement.

- **57.** $27.9 \text{ kg} = \underline{?} \text{ g}$
- **58.** 38 mL = ? L
- **59.** 260 cm = ? mm

Complete the statement with <, >, or =.

- **60.** 0.73 kg _ ?_ 730 g
- 61. 210,000 mL _ ? · 72.1 kL
- **62.** 3 cm _ ? _ 73 mm

Tell whether the number is prime, composite, or neither.

- 63. 37
- 64. 39
- **65.** 13
- **66.** 58

Find the GCF of the numbers.

- **67.** 16, 28 ·
- **68.** 24, 38
- 69. 36, 81

Write two fractions that are equivalent to the given fraction.

- 70. $\frac{3}{7}$
- **71.** $\frac{1}{9}$
- 72. $\frac{4}{5}$

Tell whether the fraction is in simplest form. If not, simplify it.

- 74. $\frac{24}{32}$
- **75.** $\frac{9}{14}$

- 50. _____ 51. _____
- 52. _____
- 53. _____
- 54.
- 55. _____
- 56. _____
- 57. _____
- 58. _____ 59. ____
- .60. _____
- 61. _____
- 62. _____
- 63. _____
- 64.
- 65. _____
- 66. _____
- 67. _____
- 68. _____
- 69. ____
- 70. _____

- 73. _____



For use after Chapter 13

Find the LCM of the numbers.

Rewrite the number as an improper fraction or mixed number.

79.
$$6\frac{4}{9}$$

80.
$$\frac{37}{4}$$

81.
$$\frac{20}{6}$$

Write the decimal as a fraction or mixed number in simplest form.

Find the sum or difference. Write your answer in simplest form.

85.
$$\frac{5}{9} + \frac{1}{9}$$

86.
$$\frac{4}{15} + \frac{2}{3}$$

87.
$$\frac{57}{10} - \frac{2}{5}$$

88.
$$14\frac{1}{4} - 6\frac{1}{8}$$

89.
$$3\frac{4}{7} + 8\frac{6}{7}$$

90.
$$8\frac{2}{5} - 5\frac{4}{5}$$

91. You went shopping with a group of friends from 11:45 A.M. until 3:20 P.M. How long were you shopping?

Find the product or quotient. Write your answer in simplest form.

92.
$$\frac{5}{9} \times \frac{3}{4}$$

93.
$$3\frac{5}{7} \times 4\frac{3}{8}$$

92.
$$\frac{5}{9} \times \frac{3}{4}$$
 93. $3\frac{5}{7} \times 4\frac{3}{8}$ **94.** $\frac{9}{14} \div \frac{1}{7}$ **95.** $8 \div 6\frac{2}{7}$

95.
$$8 \div 6\frac{2}{7}$$

- **96.** A recipe calls for $2\frac{3}{4}$ cups of flour. You already measured $1\frac{2}{3}$ cups. How much more flour do you need?
- 97. You bought 9 feet of elastic to make hair ties. Each hair tie needs $3\frac{3}{8}$ inches of elastic. How many hair ties can you make?

Answers



For use after Chapter 13

Write the unit rate.

102.
$$\frac{161 \text{ miles}}{7 \text{ gallons}}$$

103.
$$\frac{432 \text{ words}}{6 \text{ minutes}}$$

Solve the proportion.

105.
$$\frac{a}{12} = \frac{6}{36}$$

106.
$$\frac{42}{b} = \frac{3}{8}$$

106.
$$\frac{42}{b} = \frac{3}{8}$$
 107. $\frac{6}{18} = \frac{c}{24}$

Write the percent as a decimal and a fraction.

Write the fraction or decimal as a percent.

111.
$$\frac{5}{8}$$

113.
$$\frac{13}{20}$$

Find the percent of the number.

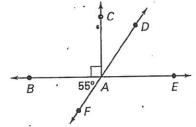
117. A bank account pays 3% annual interest. How much simple interest will \$4500 earn in 5 years?

In Exercises 118-120, use the diagram shown.

118. Name a pair of complementary angles.



120. Find the measure of $\angle FAE$.



Find the area of the figure described.

Find the circumference and area of the circle described.

123.
$$r = 16 \text{ ft}$$

124.
$$d = 350 \text{ mm}$$

Answers

112. ___

For use after Chapter 13

Answers

Find the sum or difference.

128.
$$12 + (-25)$$

129.
$$-21 + 21$$

130.
$$-2 - 9$$

Find the product or quotient.

134.
$$36 \div (-9)$$

135.
$$-84 \div (-14)$$

Write the sentence as an equation.

136. The product of 6 and a number n is 54.

137. The sum of a number x and 4 is 13.

Solve the equation.

138.
$$16 + p = 22$$

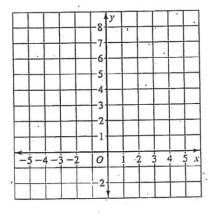
139.
$$x - 8 = 9$$

140.
$$63 = 9n$$

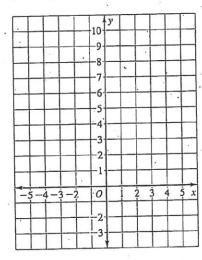
141.
$$\frac{z}{4} = 6$$

Make an input-output table using the function rule and the input values $x=0,\,1,\,2,\,3,\,$ and 4. Graph the function.

142.
$$y = x + 2$$



143.
$$y = 3x - 2$$



- 128. _____
- 129. _____
- 130. _____
- 131.
- 132. _____
- 133. _____
- 134. _____
- 135. ______ 136. _____
- 137. _____
- 138. _____
- 139. _____
- 140. _____
- 141.
- 142. See left.
- 143. See left.



Name

For use after Chapter 13

A box contains 15 tiles numbered 1 through 15. You randomly choose a tile. Find the probability of the event.	Answers
144. You choose an even number.	145
145. You choose a number less than 20.	146
146. You choose the number 17.	147
147. You choose a multiple of 4.	148.
148. Describe the complement of the event in Exercise 147. Then find its probability.	
Use the list of data below. The data show the number of students that ride the activity bus each day.	150
18, 15, 9, 25, 23, 17, 19, 14, 6, 8, 11, 20, 23, 12, 8, 26, 18, 7	

150. Find the mean, median, and mode(s).

Date