

Post-Course

For use after Chapter 13

Find the sum, difference, product, or quotient.

1. $162 \div 6$ 2. $273 - 148$ 3. $44 + 79$ 4. 37×22
 5. $407 - 53$ 6. 88×3 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.

10. 9^3 11. 6 cubed 12. 14 squared

Evaluate the expression.

13. $34 - 16 + 7$ 14. $14 + 8 \div 2$ 15. $\frac{25 \times 4 + 44}{6^2}$

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

16. $8x$ 17. $6x \div 2 + y$ 18. $y^2 - 2x$

Choose an appropriate customary unit and metric unit for the length.

19. thickness of a textbook 20. distance of a marathon

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
 23. Make a bar graph of the number of students with a birthday in each season.

Season	Winter	Spring	Summer	Fall
Number of students	9	6	12	8

Answers

1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____
 7. _____
 8. _____
 9. _____
 10. _____
 11. _____
 12. _____
 13. _____
 14. _____
 15. _____
 16. _____
 17. _____
 18. _____
 19. _____
 20. _____
 21. _____
 22. _____
 23. See left.

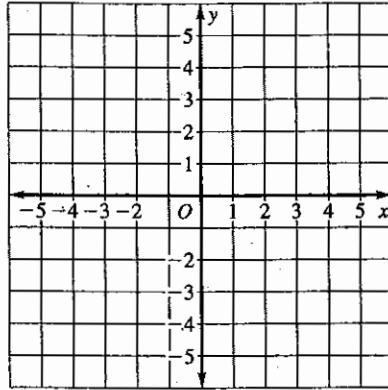
HM 6th

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Graph the points on the same coordinate grid.

24. (2, 5) 25. (4, 0) 26. (-3, 1) 27. (1, -2)



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:
 3, 2, 3, 3, 3, 4, 3, 4, 5, 4, 4, 4

Write the number as a decimal.

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

Write the decimal in words.

32. 10.362 33. 0.02 34. 0.0793

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

35. $4.5 \underline{?} 5.4$ 36. $16.64 \underline{?} 16.57$ 37. $0.32 \underline{?} 0.320$

Round the decimal as specified.

38. 21.3528 (nearest tenth) 39. 0.161616 (nearest thousandth)

Find the sum or difference.

40. $4.3 + 8.9$ 41. $15.6 - 7.7$ 42. $9.41 - 5.4$

Find the product.

43. 3×7.64 44. 38.5×4 45. 9.152×11

Answers

24. See left.
 25. See left.
 26. See left.
 27. See left.
 28. _____
 29. _____
 30. _____
 31. _____
 32. _____
 33. _____
 34. _____
 35. _____
 36. _____
 37. _____
 38. _____
 39. _____
 40. _____
 41. _____
 42. _____
 43. _____
 44. _____
 45. _____

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Use the distributive property to find the product.

46. $4(6 + 3.9)$ 47. $6(43)$ 48. $5(7.2)$

Find the product or quotient.

49. 8.4×0.79 50. 4.3×0.005

51. $0.45 \div 0.09$ 52. $5.76 \div 1.2$

Find the product or quotient using mental math.

53. 21.3×100 54. 58.74×0.01

55. $715 \div 1000$ 56. $0.36 \div 0.1$

Copy and complete the statement.

57. $27.9 \text{ kg} = \underline{\quad? \quad} \text{ g}$

58. $38 \text{ mL} = \underline{\quad? \quad} \text{ L}$

59. $260 \text{ cm} = \underline{\quad? \quad} \text{ mm}$

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

60. $0.73 \text{ kg} \underline{\quad? \quad} 730 \text{ g}$

61. $210,000 \text{ mL} \underline{\quad? \quad} 72.1 \text{ kL}$

62. $3 \text{ cm} \underline{\quad? \quad} 73 \text{ mm}$

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.

73. $\frac{7}{84}$ 74. $\frac{24}{32}$ 75. $\frac{9}{14}$

Answers

46. _____
47. _____
48. _____
49. _____
50. _____
51. _____
52. _____
53. _____
54. _____
55. _____
56. _____
57. _____
58. _____
59. _____
60. _____
61. _____
62. _____
63. _____
64. _____
65. _____
66. _____
67. _____
68. _____
69. _____
70. _____
71. _____
72. _____
73. _____
74. _____
75. _____

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Find the LCM of the numbers.

76. 4, 18

77. 3, 13

78. 5, 6, 12

Answers

76. _____

77. _____

Rewrite the number as an improper fraction or mixed number.

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

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

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

78. _____

79. _____

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

82. 0.85

83. 5.4

84. 2.11

80. _____

81. _____

82. _____

83. _____

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

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

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

85. _____

86. _____

87. $\frac{7}{10} - \frac{2}{5}$

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

87. _____

88. _____

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

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

89. _____

90. _____

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

91. _____

92. _____

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

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

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

94. $\frac{9}{14} \div \frac{1}{7}$

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

93. _____

94. _____

95. _____

96. _____

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. _____

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?

98. _____

99. _____

100. _____

Complete the statement.

101. _____

98. 3 qt 2 pt = ? pt

99. 87 in. = ? yd ? ft ? in.

Find the sum or difference.

100. 5 ft 8 in. + 7 ft 6 in.

101. 9 lb 4 oz - 2 lb 11 oz

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Write the unit rate.

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

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

104. $\frac{48 \text{ yards}}{8 \text{ seconds}}$

Solve the proportion.

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

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

107. $\frac{6}{18} = \frac{c}{24}$

Write the percent as a decimal and a fraction.

108. 8.9%

109. 36%

110. 71%

Write the fraction or decimal as a percent.

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

112. 0.047

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

Find the percent of the number.

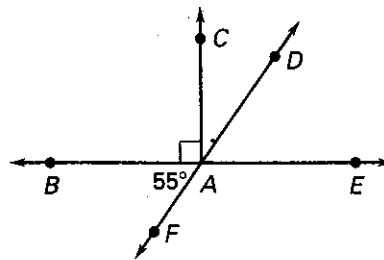
114. 40% of 80

115. 6% of 3

116. 28% of 250.

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.

119. Find the measure of $\angle DAE$.

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

Find the area of the figure described.

121. Parallelogram: base = 14 in., height = 32 in.

122. Triangle: base = 8 cm, height = 5 cm

Find the circumference and area of the circle described.

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

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

125. How many faces, edges, and vertices does a pentagonal prism have?

Answers

102. _____

103. _____

104. _____

105. _____

106. _____

107. _____

108. _____

109. _____

110. _____

111. _____

112. _____

113. _____

114. _____

115. _____

116. _____

117. _____

118. _____

119. _____

120. _____

121. _____

122. _____

123. _____

124. _____

125. _____

