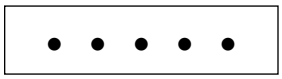
Book 1

1. How many dots are in the box?



_____

2. Write the numbers that are left out.

   56, 57, _____, 59, _____ , _____ , 62

3. Write the number that comes next.

   998, 999, _____

Write the numerals for these number words.

4. four thousand, eight hundred ninety-three _____

5. one hundred fifteen dollars and five cents _____

Write the number words for these numerals.

6. 47 _____

7. $103.16 _____

8. How many tens are in 45? _____

9. How many hundreds are in 302? _____

10. Circle the biggest number: 81 80 78

Book 2

Add these numbers.

11. 325 + 142 = _____

12.
$$\begin{array}{r} 201 \\ 614 \\ +\ 121 \\ \hline \end{array}$$

13. 253 + 13 = _____

14.
$$\begin{array}{r} 38 \\ +\ 45 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 489 \\ +\ 313 \\ \hline \end{array}$$

16. $1.23 + $3.42 + $.75 = _____

Book 3

Subtract these numbers.

17.
$$\begin{array}{r} 68 \\ -\ 42 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 895 \\ -\ 453 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 73 \\ -\ 58 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 427 \\ -\ 192 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 712 \\ -\ 356 \\ \hline \end{array}$$

22.
$$\begin{array}{r} \$32.00 \\ -\ 4.89 \\ \hline \end{array}$$

Book 4

Multiply these numbers.

23. $\begin{array}{r} 23 \\ \times\ 2 \\ \hline \end{array}$

24. $\begin{array}{r} 312 \\ \times\ 2 \\ \hline \end{array}$

25. $\begin{array}{r} 695 \\ \times\ 8 \\ \hline \end{array}$

26. $\begin{array}{r} 57 \\ \times\ 13 \\ \hline \end{array}$

27. $\begin{array}{r} 257 \\ \times\ 42 \\ \hline \end{array}$

Book 5

Divide these numbers.

28. $48 \div 4 =$ _____

29. $768 \div 8 =$ _____

30. $98 \div 14 =$ _____

31. $715 \div 18 =$ _____

32. $803 \div 4 =$ _____

33. $130 \div 10 =$ _____

Book 6

Solve these word problems.

34. The Wilsons want to buy a used car.
They have $2,200.
The car they like costs $3,495.
They must find out how much more money they need.
What should they do? Circle one.

add subtract multiply divide

How much more money do they need? _____

35. Four women share an apartment.
Their heating bill for March is $115.28.
They must figure out how much each woman owes.
What should they do? Circle one.

add subtract multiply divide

How much does each woman owe? _____

36. George bakes 25 loaves of bread.
He wants to know how much money he would make if he sold each loaf for $1.25.
What should he do? Circle one.

add subtract multiply divide

How much money would he make? _____

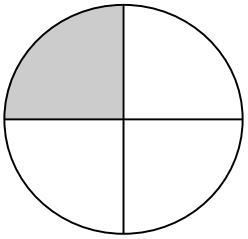
37. Carla goes to an auto supply store.
She finds an air filter for $9.98.
She finds a can of oil for $4.93.
She finds an oil filter for $6.50.
Carla wants to figure out how much these items will cost altogether.
What should she do? Circle one.

add subtract multiply divide

How much will the items cost altogether? _____

Book 1

38. Write the fraction that tells what part of each circle is shaded.



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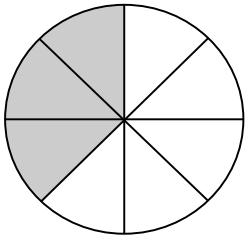


_____

39. Change $\frac{7}{3}$ into a mixed number. _____

40. Change $1\frac{7}{8}$ into an improper fraction. ____

41. Make the equivalent fraction: $\frac{1}{4} = \frac{\quad}{16}$

42. Reduce $\frac{12}{15}$ to its lowest terms: _____

43. Find a common denominator for $\frac{3}{5}$, $\frac{2}{3}$, and $\frac{4}{9}$. _____

44. Which is largest: $\frac{7}{8}$, $\frac{3}{4}$, or $\frac{2}{3}$? _____

Book 2

From now on, reduce all fraction answers to lowest terms.
Change improper fraction answers to mixed numbers.

45. $\frac{2}{9} + \frac{5}{9}$

46. $\frac{1}{3} + \frac{1}{2}$

47. $1\frac{3}{5} + 7\frac{2}{3}$

48. $\frac{5}{9} - \frac{1}{3}$

49. $6\frac{1}{2} - 2\frac{1}{5}$

50. $5\frac{1}{8} - 2\frac{3}{4}$

Book 3

51. $\frac{3}{7} \times 3 =$ _____

52.* $\frac{13}{15} \times \frac{5}{9} =$ _____

53.* $4\frac{2}{3} \times 1\frac{2}{7} =$ _____

54. $\frac{1}{5} \div \frac{1}{3} =$ _____

55. $2\frac{1}{2} \div 1\frac{1}{5} =$ _____

* Student should cancel before multiplying in questions 52 and 53.

Book 4

56. Write *three-tenths* as a decimal. _____

57. Check the correct answer:
    3.006 =
    _____ three and six-thousandths
    _____ three thousand and six
    _____ three and six-hundredths

58. .2 + 29 + 6.8 + .001 = _____

59. 6.031 – .9 = _____

60. 7.01 × .02 = _____

61. .0035 ÷ .05 = _____

62. Round off .88 to the nearest tenth. _____

63. Change $\frac{1}{5}$ into a decimal. _____

Book 5

64. Write 40% as a fraction. _____

65. Change $\frac{3}{5}$ into a percent. _____

66. Write 8% as a decimal. _____

67. Change .03 into a percent. _____

68. What percent of 80 is 20? _____

69. What is 25% of 360? _____

70. 65% of what number is 260? _____

71. What is 125% of 80? _____

72. \$33 is $5\frac{1}{2}$% of what amount? _____

73. The old price was \$5.00.
The new price is \$7.50.
What is the percent of increase? _____

74. What is \$12.50 decreased by 16%? _____

75. The current price is \$30.
This is 25% less than the old price.
What was the old price? _____

Book 6

Solve these word problems.

76. In December, there were 3,000 people working at a car factory.
In January, 500 people were laid off.
What percent of the workers were laid off in January?
(Round off your answer to the nearest tenth.) _____

77. Hailey's truck gets 15.7 miles per gallon of gas.
She puts 10 gallons in her truck before she leaves for a trip.
How many miles can she travel on 10 gallons of gas? _____

78. John's typing teacher timed John's typing each day.
On Monday, he typed 45 words per minute.
On Tuesday, he typed 46 words per minute.
On Wednesday, he typed 54 words per minute.
On Thursday, he typed 51 words per minute.
On Friday, he typed 59 words per minute.
What was John's average number of words per minute? _____

In the next two questions, write down what steps you must take to solve the problem.
For instance, you might have to add and then divide.

79. Naomi is paid $8.20 an hour for doing odd jobs.
She worked $4\frac{1}{4}$ hours on Monday, $4\frac{3}{4}$ hours on Tuesday, and $5\frac{1}{4}$ hours on Thursday.
How much money did she make in all?

    Step 1. _____

    Step 2. _____

    How much did she make? _____

80. Negasi paid $616 for a new couch that was on sale.
The regular price was $770.
What percent was the couch marked down?

    Step 1. _____

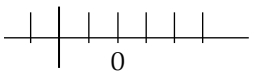
    Step 2. _____

    What percent was the couch marked down?
    (Round off your answer to the nearest percent.) _____

Book 1

81. What number does the long line stand for? _____

(Each line stands for one whole number.)



82. $(-3) + (-5) =$ _____

83.
$$\begin{array}{r} 13 \\ +\ -8 \\ \hline \end{array}$$

84. $(-8) + (7) + (-9) =$ _____

85.
$$\begin{array}{r} 5 \\ -\ -5 \\ \hline \end{array}$$

86. $(10) - (5) - (-2) =$ _____

87. $(-12)(-4) =$ _____

88. $(-3)(5)(6) =$ _____

89. $\frac{36}{-12} =$ _____

90. $2(5 + 2) - \frac{20}{5} =$ _____

Book 2

91. Write an algebraic expression that says:
Fifteen divided by an unknown number. _____

92. Find the value of $a + 2b$ when $a = 1$ and $b = 2$. _____

93. If $n - 13 = 27$, then $n =$ _____

94. Add: $3x + 3x =$ _____

95. Multiply: $4(3y) =$ _____

96. If $x + 2x + 3 = 9$, then $x =$ _____

97. If $5(x + 2) = 3(x + 10)$, then $x =$ _____

98. If $p + q + r = s$, then $r =$ _____

Book 3

Solve these word problems.

99. Javier was driving at 50 miles an hour.
How long did it take him to drive 200 miles?
Use the formula: Distance = (Rate)(Time) _____

100. Mickey and Minnie went on diets.
Mickey lost $\frac{1}{3}$ as much as Minnie did.
Mickey lost only 9 pounds.
How much did Minnie lose? _____

101. The Bears played 100 ball games.
They won 80 games.
What is the ratio of games won to games played?
Reduce your answer. _____

102.* 12 feet of lumber costs $40.
How much will 30 feet cost? _____

103.* The Flaky Pastry Shop is having a sale.
Two pieces of pastry cost $.75.
How much will two dozen pieces cost? _____

* Student should use proportions to solve questions 102 and 103.

Book 4

104. List the factors of –36. _____

105. 4^3 = _____

106. $\sqrt{36}$ = _____

107. List the like terms in this expression: $4ab + 3x - 2a^2b - \frac{x}{y} + 3ab$ _____

108. $5t^2 - 3t^2$ = _____

109. $(2b)(b^2)$ = _____

110. $\frac{-8x^4}{-2x}$ = _____

111. $(6c - 2d + f) + (-3c + 3f)$ = _____

112. $(5x^2 + 3xy - y^2) - (x^2 + 5xy + 3y^2)$ = _____

113. $p(p + 2)$ = _____

114. $(2a + 3)(a - 7)$ = _____

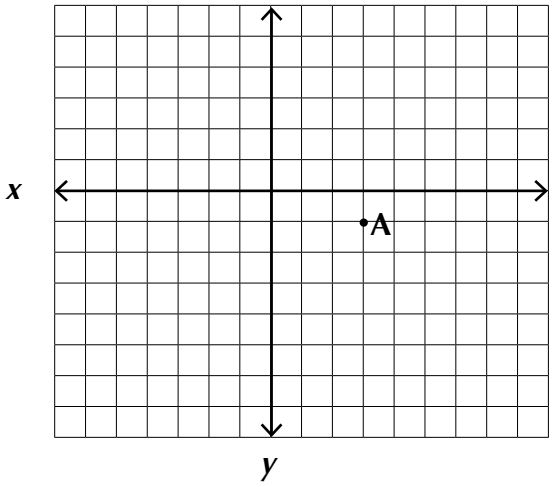
115. $\frac{abc - 3a^2b^2}{ab}$ = _____

116. Factor this expression: $50x^2y + 70x^2z + 40x^2$ = _____

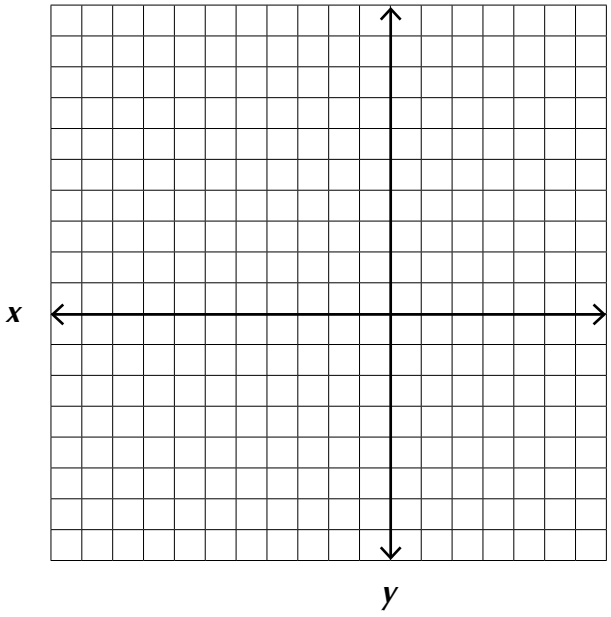
117. Factor this expression: $x^2 - 49$ = _____

Book 5

118. Find the coordinates for Point A on this graph. _____



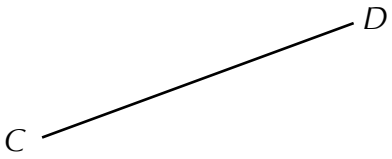
119. Use graphing to find the solutions these two equations have in common: $y = 2x - 1$ and $y = x$. _____



Book 1

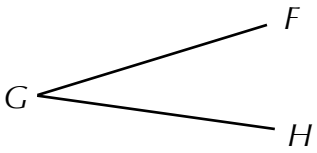
120. What is the name of this line?

_____



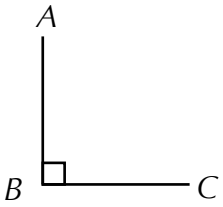
121. What is the name of this angle?

_____

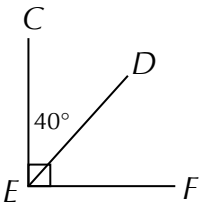


122. What kind of angle is $\angle ABC$? acute, obtuse, or right?

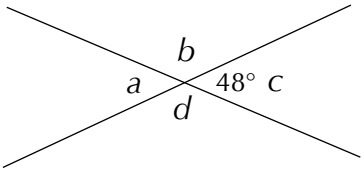
_____



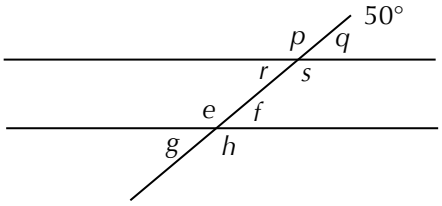
123. How many degrees in $\angle DEF$? _____



124. How many degrees in $\angle d$? _____



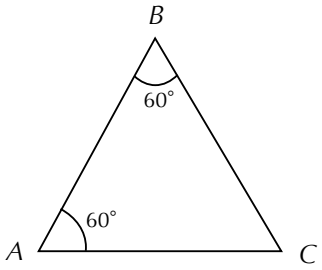
125. How many degrees in $\angle f$? _____



Book 2

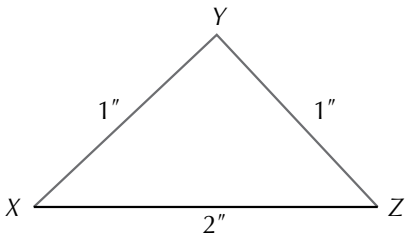
126. How many degrees in $\angle C$?

_____

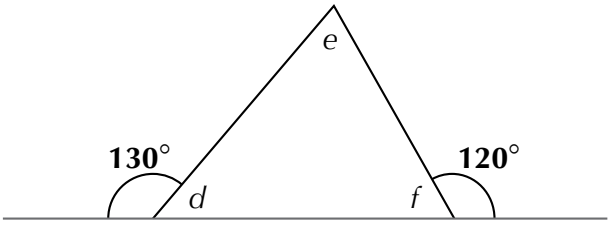


127. What kind of triangle is ΔXYZ: scalene, isosceles, or equilateral?

_____

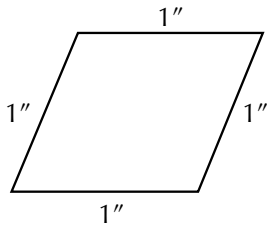


128. How many degrees in $\angle e$? _____



129. Label each quadrangle with one of these terms: *rectangle, rhombus, trapezoid, parallelogram*.

_____



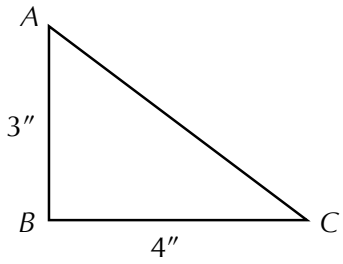
_____

_____

_____

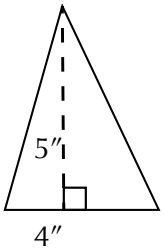
130. Find the perimeter of a 7-inch square. _____

131. Find the length of side *AC*. Use the formula: $a^2 + b^2 = c^2$. _____

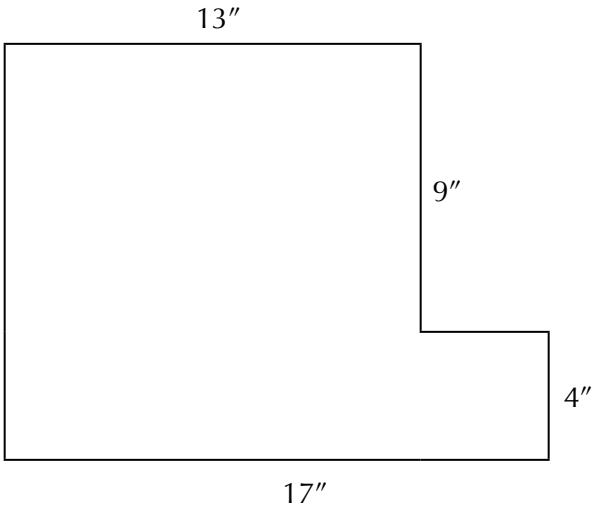


132. Find the area of a rectangle that is 6 feet wide and 12 feet long. _____

133. Find the area of this triangle. _____



134. Find the area of this figure. _____



Book 3

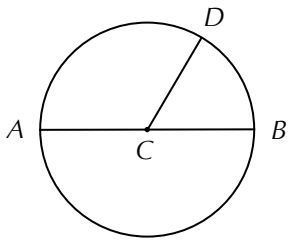
135. Identify each part of the circle with one of these terms: circumference, radius, diameter, arc.

Line *CD* _____

Line *AB* _____

Line *BD* _____

Distance around the circle _____

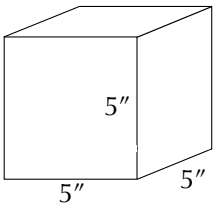


136. Find the radius of a circle with a 10-inch diameter. _____

137. Find the circumference of a circle with a 14-inch diameter. Let $\pi = 3\frac{1}{7}$. _____

138. Find the area of a circle with a radius of 7 inches. Let $\pi = \frac{22}{7}$. _____

139. Find the volume of this cube. _____



140. Find the volume of this cylinder. Let $\pi = 3.14$. _____