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. 
\[
\begin{array}{c}
201 \\
614 \\
+ 121 \\
\end{array}
\]

13. \(253 + 13 = \) 

14. 
\[
\begin{array}{c}
38 \\
+ 45 \\
\end{array}
\]

15. 
\[
\begin{array}{c}
489 \\
+ 313 \\
\end{array}
\]

16. \(38 + 45 + 121 = \) 

Book 3

Subtract these numbers.

17. 
\[
\begin{array}{c}
68 \\
\underline{- 42} \\
\end{array}
\]

18. 
\[
\begin{array}{c}
895 \\
\underline{- 453} \\
\end{array}
\]

19. 
\[
\begin{array}{c}
73 \\
\underline{- 58} \\
\end{array}
\]

20. 
\[
\begin{array}{c}
427 \\
\underline{- 192} \\
\end{array}
\]

21. 
\[
\begin{array}{c}
712 \\
\underline{- 356} \\
\end{array}
\]

22. 
\[
\begin{array}{c}
32.00 \\
\underline{- 4.89} \\
\end{array}
\]

$1.23 + $3.42 + $.75 = $
Multiply these numbers.

23. \[ 23 \times 2 \]

24. \[ 312 \times 2 \]

25. \[ 695 \times 8 \]

26. \[ 57 \times 13 \]

27. \[ 257 \times 42 \]

28. \[ 48 \div 4 = \]  

29. \[ 768 \div 8 = \]  

30. \[ 98 \div 14 = \]  

31. \[ 715 \div 18 = \]  

32. \[ 803 \div 4 = \]  

33. \[ 130 \div 10 = \]
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.

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

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

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

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. $\frac{3}{7} \times 3 = \underline{\hspace{2cm}}$

52. $\frac{13}{15} \times \frac{5}{9} = \underline{\hspace{2cm}}$

53. $4\frac{2}{3} \times 1\frac{2}{7} = \underline{\hspace{2cm}}$

54. $\frac{1}{5} \div \frac{1}{3} = \underline{\hspace{2cm}}$

55. $2\frac{1}{2} \div 1\frac{1}{5} = \underline{\hspace{2cm}}$

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

Book 4

56. Write three-tenths as a decimal. \underline{\hspace{2cm}}

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

58. $.2 + 29 + 6.8 + .001 = \underline{\hspace{2cm}}$

59. $6.031 - .9 = \underline{\hspace{2cm}}$

60. $7.01 \times .02 = \underline{\hspace{2cm}}$

61. $.0035 \div .05 = \underline{\hspace{2cm}}$

62. Round off .88 to the nearest tenth. \underline{\hspace{2cm}}

63. Change $\frac{1}{5}$ into a decimal. \underline{\hspace{2cm}}
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? __________
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.)
81. What number does the long line stand for? __________
   (Each line stands for one whole number.)
   
   \[ \begin{array}{c}
   \hline
   & 1 & 1 & 1 & 1 & 1 \\
   0 & \hline
   \end{array} \]

82. \(-3\) + \(-5\) = __________

83. \[
   \begin{array}{c}
   \text{13} \\
   + \text{-8}
   \end{array}
   \]

84. \(-8\) + \(7\) + \(-9\) = __________

85. \[
   \begin{array}{c}
   \text{5} \\
   - \text{-5}
   \end{array}
   \]

86. \((10) - (5) - (-2) = \) __________

87. \((-12)(-4) = \) __________

88. \((-3)(5)(6) = \) __________

89. \[
   \frac{36}{-12} = \)

90. \[2(5 + 2) - \frac{20}{5} = \) __________
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.
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: $x^2 - 49 =$
118. Find the coordinates for Point A on this graph. ________________

119. Use graphing to find the solutions these two equations have in common:
   \[ y = 2x - 1 \text{ and } y = x. \] ________________
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 $\angle f$? 
126. How many degrees in $\angle C$?

127. What kind of triangle is $\triangle XYZ$: 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. ________________
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 $\pi = 3.14$. ________________