Chapter 1 Review Exercises

Chapter 1 Vocabulary

For each, fill in the blank with the correct word from the Word List. Each word in the Word List will be used only once.

Word List

addition
approximation
area
coefficient
constant
digits
evaluate
factors
formula
identity
legend
multiple
number
numeral
operations
perimeter
quotient
remainder
solution
variable

1. A _____ describes how many of something there is.

2. A _____ is a symbol that represents a number.

3. There are ten _____ in our base-ten numbering system.

4. Addition and division are two _____ .

5. To _____ means "to find the value of."

6. The _____ of a geometric figure is the sum of the lengths of the sides.

7. _____ is the amount of surface in an enclosed region.

8. A rounded number is called an _____ .

9. For addition, the _____ is 0.

10. The numbers in product are called _____ .

11. Multiplication is an abbreviation for repeated _____ .

12. The answer to an exact division is called the _____ .

13. The amount left over after dividing is the _____ .

14. A _____ is a letter that represents a number.

15. In the expression $9 \cdot n$, the number 9 is called the _____ .

16. In the expression $n + 7$, the number 7 is called the _____ .

17. The _____ of an equation makes the equation true.

18. The _____ describes the unknown value in an application problem.

19. If a and b are two whole numbers, then their product, $a \cdot b$, is a _____ of a.

20. The basic _____ for addition is the sum of all of the parts equals the whole.

Section 1.1

Write each number in expanded form.

21. 724

22. 6,807

Write each number in words.

23. 408

24. 9,051

25. 206,005

26. 5,470,000

Write the whole number as a numeral.

27. one hundred seven

28. two thousand, five

29. five hundred eight thousand, forty-one

30. one million, six hundred fifty-two

Round each number to the nearest ten.

31. 642 **32.** 295 **33.** 1,450 **34.** 2,996

Round each number to the nearest hundred.

35. 642 **36.** 30,295 **37.** 126,450 **38.** 4,949

Round each number to the nearest thousand.

39. 30,529 **40.** 54,067 **41.** 249,801 **42.** 812

Rewrite the underlined sentence or phrase using the requested approximation.

43. In 2003, the total number of full-time airline employees was 507,091. Round this number to the nearest *ten thousand.* *(Source: bts.gov)*

44. In 2004, the U.S. population, was 294,490,706. Round this number to the nearest *hundred thousand.* *(Source: census.gov)*

Section 1.2

Which property is being demonstrated?

45. $39 \cdot 1 = 39$

46. $4 + (3 + 7) = (4 + 3) + 7$

47. $74 + 15 = 15 + 74$

48. $0 + 26 = 26$

Section 1.3

Align the numbers, then add.

49. 7 + 9 **50.** 4 + 8 **51.** 16 + 44 **52.** 319 + 211

53. 457 + 93 **54.** 1,934 + 98 **55.** 1,048 + 673 **56.** 9,184 + 828

57. 36 + 51 + 14 + 9 **58.** 435 + 943 + 25 + 1,462

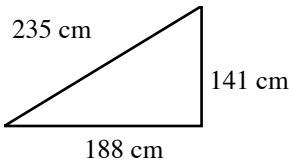
Work each application and answer with a complete sentence.

59. On Tuesday morning, Brian rode an exercise bike for one-half hour and burned 387 calories. After a break he rode another half hour and burned 295 calories. How many total calories did Brian burn on the exercise bike that morning?

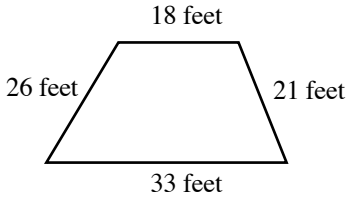
60. Kaira added up her test scores for the first three math tests. Her scores were 89, 75, and 92. What is the total number of points Kaira received on her first three tests?

Find the perimeter of each figure.

61.



62.



Align the numbers, then subtract. Check each answer (on paper or mentally) by addition.

63. 56 – 32 **64.** 549 – 408 **65.** 71 – 26 **66.** 132 – 58

67. 1,193 – 546 **68.** 16,425 – 841 **69.** 1,013 – 165 **70.** 6,050 – 5,872

71. 200,000 – 19,793 **72.** 4,000,000 – 3,096,205

Work each application and answer with a complete sentence.

73. In 2003, the average attendance for the Washington Redskins home games was 80,500. The average attendance for the Chicago Bears home games was 61,603. On average, how many more fans were in attendance at Washington home games than Chicago home games? *(Source: Kenn.com)*

74. The total area of Nevada is 110,561 square miles, and the total area of Michigan is 96,716 square miles. How much larger (in square miles) is Nevada than Michigan? *(Source: Infoplease.com)*

Section 1.4

Multiply.

75. 8 · 7 **76.** 9 · 6 **77.** 7 · 4 **78.** 2 · 8

79. 7 · 5 **80.** 6 · 2 **81.** 5 · 8 **82.** 9 · 9

Multiply.

83. $6 \cdot 20$ **84.** $7 \cdot 30$ **85.** $90 \cdot 20$ **86.** $80 \cdot 30$

87. $9 \cdot 800$ **88.** $200 \cdot 8$ **89.** $90 \cdot 700$ **90.** $20 \cdot 500$

Align the numbers, then multiply.

91. $25 \cdot 9$ **92.** $47 \cdot 8$ **93.** $91 \cdot 7$ **94.** $152 \cdot 6$

95. $28 \cdot 43$ **96.** $56 \cdot 82$ **97.** $174 \cdot 12$ **98.** $192 \cdot 306$

Which property is being demonstrated?

99. $3 \cdot (8 \cdot 5) = (3 \cdot 8) \cdot 5$ **100.** $0 \cdot 9 = 0$

101. $4 \cdot (2 + 7) = 4 \cdot 2 + 4 \cdot 7$ **102.** $15 \cdot 4 = 4 \cdot 15$

Work each application and answer the question with a complete sentence.

103. Marley drives 38 miles round trip to work and home each workday. In March she worked 23 days. How many total miles did Marley drive to and from work in March?

104. Colin's basement floor is in the shape of a rectangle. The width is 19 feet and the length is 34 feet. What is the area of Colin's basement floor?

Section 1.5

Divide. Check the division by multiplying, mentally, the divisor and the quotient.

105. $36 \div 4$ **106.** $49 \div 7$ **107.** $0 \div 8$ **108.** $40 \div 5$

109. $72 \div 9$ **110.** $56 \div 8$ **111.** $24 \div 3$ **112.** $54 \div 6$

Use long division to divide. Be sure to write any remainder next to the quotient.

113. $60 \div 9$ **114.** $43 \div 7$ **115.** $29 \div 3$ **116.** $38 \div 6$

117. $98 \div 7$ **118.** $115 \div 5$ **119.** $168 \div 4$ **120.** $172 \div 2$

121. $2{,}268 \div 7$ **122.** $1{,}369 \div 8$ **123.** $3{,}587 \div 6$ **124.** $2{,}832 \div 9$

125. $364 \div 14$ **126.** $1{,}024 \div 16$ **127.** $9{,}100 \div 65$ **128.** $246{,}321 \div 81$

129. $916 \div 15$ **130.** $1{,}921 \div 26$ **131.** $4{,}250 \div 59$ **132.** $7{,}929 \div 73$

Work each application and answer it with a complete sentence.

133. The Jacksonville Rotary club purchased a trailer to sell food from at county fairs. Each of the 24 members had to contribute the same portion to pay for the $6,360 trailer. How much was each member's contribution?

134. 405 sixth grade students are visiting a college. The director of the event wants to divide them up into different classrooms for the variety of programs planned. If each classroom can hold 32 students, how many classrooms are needed?

Section 1.6

For each, replace n with 12 and decide whether or not 12 is the solution.

135. $41 = n + 19$ **136.** $18 + n = 30$ **137.** $6 \cdot n = 72$ **138.** $350 = n \cdot 25$

Solve the following. Check each answer to show that it is the solution.

139. $n + 7 = 15$

140. $72 = n + 39$

141. $151 + 94 + 208 = n$

142. $2{,}094 + 3{,}516 + n = 10{,}000$

143. $n \cdot 7 = 98$

144. $490 = 5 \cdot n$

145. $34 \cdot 40 = n$

146. $35 \cdot n = 1{,}260$

Section 1.7

Work each application and answer it in a complete sentence.

147. Carlotta sells bedroom furniture. Her company gives her bonus pay if she has sales of $20,000 or more during the Labor Day weekend (Saturday through Monday). On Saturday she sold $10,560 of merchandise. On Sunday, she had sales of $6,280. What do Carlotta's sales need to be on Monday to reach the $20,000 goal?

148. Rhani purchased a used car for $4,500 from her parents. She has agreed to pay them back over the next three years with 36 equal monthly payments. How much will Rhani pay her parents each month?

149. Antonio is a waiter at a pricey restaurant. Last Saturday he waited on 14 tables and earned $266 in tips. On average, how much in tips did Antonio earn from each table?

150. The carpeted children's reading room at the library is in the shape of a rectangle. The carpet is 9 yards wide and has an area of 243 square yards. What is the length of the carpet?