PRE-TEST

2 Estimation and Number Theory

Vocabulary

Fill in the blanks. Use the words in the box.

1. The number 523 rounded to the nearest

   _____ is 500.

front-end estimation
round up
100
estimated
product

2. Using _____, the estimated sum of

   3,645 + 1,056 is 3,000 + 1,000 = 4,000.

3. If the ones digit is 5 or greater, we _____ to the nearest 10.

4. An _____ difference between 3,158 and 8,632 is 5,000.

5. The _____ of 6 and 700 is 4,200.

Concepts and Skills

Fill in the blanks.

In 5,614,

6. when rounding to the nearest _____, look at the digit to the right
   of the digit 5.

7. after looking at the digit in the _____ place, the number rounds
   to the nearest hundred as 5,600.

Complete.

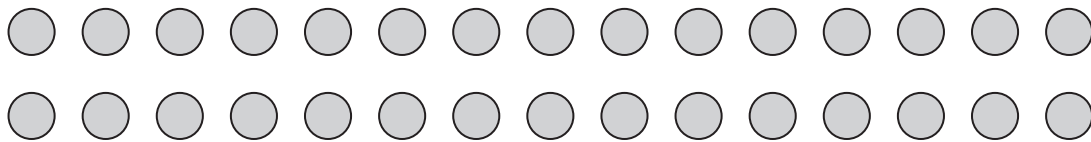**8.**   Round 637 to the nearest 10. _____

9.   Round 3,915 to the nearest 100. _____

Use front-end estimation to find an estimation of each sum or difference.

10.   7,526 + 2,153 _____

11.   4,169 − 1,538 _____

Study the diagram. Then fill in the blanks.

12.   30 = 2 × _____

13.   30 is the product of 2 and _____.

14.   The product can be divided exactly by 2 and _____.

Problem Solving

Solve. Show your work.

15.   A number between 20 and 30 is exactly divisible by 12.
What is the number?

16.   A number rounded to the nearest 10 is 830. Find the greatest possible
number.

17.   A number rounded to the nearest 100 is 1,700. Find the least possible
number.