

Name _____ Core ____ Date _____

1.6 Exercises



Vocabulary and Concept Check

1. **VOCABULARY** What is the least common multiple (LCM) of two numbers?

2. **WRITING** Describe how to find the LCM of two numbers by using prime factorization.

Find the LCM of the numbers using the prime factorization.

8. 8, 9

10. 15, 20

Find the LCM of the numbers using any method you like.

14. 18, 45

16. 36, 60



$$6 \times 9 = 54$$

The LCM of 6 and 9 is 54.

18. **ERROR ANALYSIS** Describe and correct the error in finding the LCM.

CRITICAL THINKING Tell whether the statement is *always*, *sometimes*, or *never* true.

30. The LCM of a set of numbers is equal to one of the numbers in the set.

32. **SUBWAY** At Union Station, you notice that three subway lines just arrived at the same time. The table shows their arrival schedule. How long must you wait until all three lines arrive at Union Station at the same time again?

Subway Line	Arrival Time
A	every 10 min
B	every 12 min
C	every 15 min
