Name _____ Date _____

Practice

For use with pages 250–253

List the first 6 multiples of the number.

1. 6   **2.** 9   **3.** 15

Find two common multiples of the numbers.

4. 4, 7   **5.** 5, 9   **6.** 6, 8

7. 10, 12   **8.** 24, 4   **9.** 21, 15

Find the LCM of the numbers by listing multiples.

10. 3, 8   **11.** 5, 15   **12.** 7, 12

13. 2, 5, 7   **14.** 4, 6, 9   **15.** 3, 8, 10

Find the LCM of the numbers using prime factorization.

16. 8, 12   **17.** 26, 16   **18.** 40, 32

19. 50, 45   **20.** 30, 18   **21.** 65, 104

22. Describe and correct the error in finding the LCM of 28 and 56.

Factors of 28 = $\boxed{2} \times 2 \times \boxed{7}$
Factors of 56 = $\boxed{2} \times 2 \times 2 \times \boxed{7}$
The LCM of 28 and 56 is $2 \times 7 = 14$.

Practice

For use with pages 250–253

In Exercises 23 and 24, use the following information. You and a friend are playing basketball. You only make 3-point baskets, while your friend only makes 2-point baskets.

23. List 6 different scores at which you and your friend could be tied.

24. How many baskets would it take for each of you to have the scores found in Exercise 23?

In Exercises 25–28, use the following information. A *census* is a survey that counts people. In the United States, a census is taken every 10 years. Presidential elections are held every 4 years. The year 2000 was both a census year and a presidential election year.

25. What is the next year that there will be a presidential election *and* a census?

26. How many times in the next 90 years will both occur in the same year?

27. When was the last time both the census and the presidential election occurred in the same year prior to 2000?

28. Will 2030 be a census year? Will it be a presidential election year?