LESSON 5.1

Name _____ Date _____

Practice

For use with pages 229–235

Match the word to its description.

1. prime number — **A.** a diagram used to write a factorization of a number
2. composite number — **B.** a whole number greater than 1 whose only factors are 1 and itself
3. factor tree — **C.** writing the number as the product of prime numbers
4. prime factorization — **D.** a whole number greater than 1 that has factors other than 1 and itself

Tell whether the number is *prime* or *composite*.

5. 7 **6.** 13 **7.** 25

8. 91 **9.** 22 **10.** 31

Test the number for divisibility by 2, 3, 5, 6, 9, and 10.

11. 305 **12.** 604 **13.** 1845

14. 611 **15.** 7032 **16.** 3720

LESSON 5.1 Continued

Name _____ Date _____

Practice

For use with pages 229–235

List all of the factors of the number.

17. 16

18. 45

19. 26

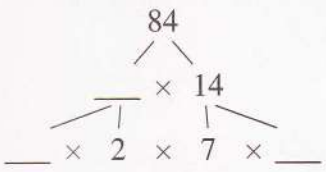
20. 11

21. 52

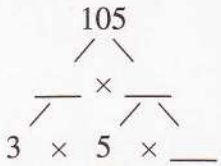
22. 63

Complete the factor tree. Then write the prime factorization for the number.

23.



24.



Write the prime factorization of the number.

25. 15

26. 120

27. 20

28. 27

29. 80

30. 63

31. In a parade, there are 36 clowns marching. The leader wants an equal number of clowns to march in rows. How many different ways can you organize the clowns using at least 2 rows and how many clowns will be in each row?