

LESSON
4.1

Name _____ Date _____

Practice B

For use with pages 168–172

Lesson 4.1

Write all the factors of the number.

1. 48 2. 72 3. 93 4. 126

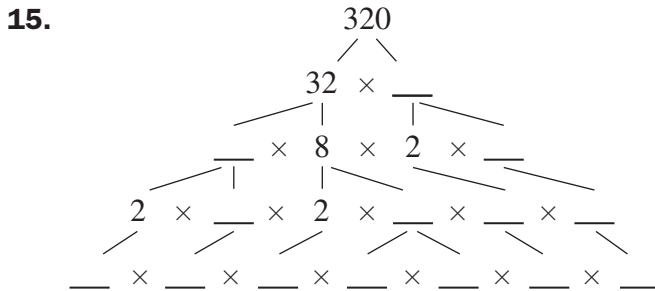
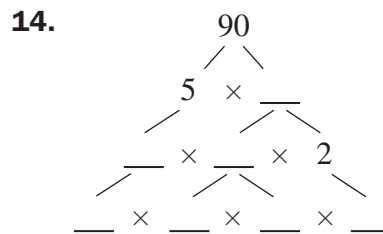
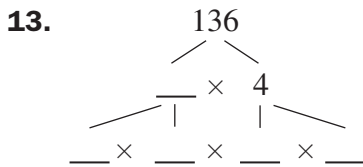
Tell whether the number is *prime* or *composite*.

5. 17 6. 22 7. 74 8. 79

Write the prime factorization of the number.

9. 16 10. 35 11. 50 12. 144

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



Factor the monomial.

16. $8a^2b$ 17. $30x^2y^2$ 18. $45m^3n^2$ 19. $84b^2c^3d$

Write all the factors of the number.

20. 125 21. 343 22. 693 23. 500

24. The eighth-grade class has a total of 162 students. The students need to be divided evenly into homerooms. There needs to be at least 20 students in each homeroom. List all the possible combinations. Which combination makes the most sense? Explain.

25. Write two different factor trees for the number 124. Compare the prime factorization. Are they the same?

Using exponents, write the prime factorization of the number.

26. 360 27. 686 28. 1728 29. 1872