

LESSON
4.1

Name _____ Date _____

Practice

For use with pages 165–169

Write all the factors of the number.

1. 29

2. 63

3. 70

4. 34

5. 120

6. 66

Tell whether the number is *prime* or *composite*. Explain your reasoning.

7. 98

8. 41

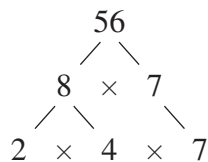
9. 57

10. 59

11. 73

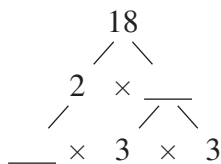
12. 25

13. Describe and correct the error in writing the prime factorization of 56.

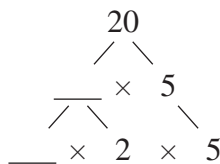


Complete the factor tree.

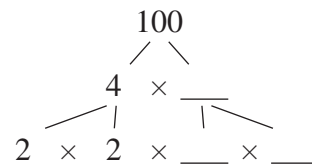
14.



15.



16.



Practice

For use with pages 165–169

Use a factor tree to write the prime factorization of the number.

17. 72

18. 125

19. 44

20. 95

21. 156

22. 77

23. You are planning to put a tile border along a 126-inch-wide wall in your kitchen. You want to use only whole tiles. List all the possible whole number tile widths you could use. If the tiles are only sold in whole number widths of 6 inches or less, what size tiles could you use?

24. You are putting up a 90-foot-long fence in your backyard. According to the manufacturer's instructions, the fence posts should be equally spaced along the length of the yard. List all the possible spacing options if the amount of space between the posts is a whole number of feet. If the posts should be spaced between 8 feet and 14 feet apart, how far apart should your posts be?