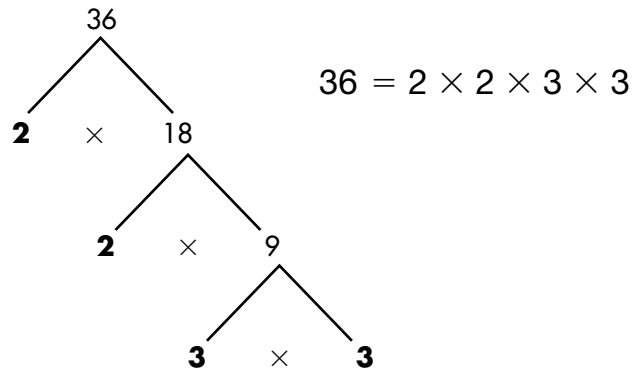


# Finding Prime Factors

You can find the prime factors of a number by using a factor tree. Write factors beginning with the smallest factor. Write factors until all the factors are prime numbers.



Remember to order factors from least to greatest.

Find the prime factorization of each number. Write *prime* if the number is prime. Use a factor tree to help you.

1. 32 \_\_\_\_\_

2. 27 \_\_\_\_\_

3. 16 \_\_\_\_\_

4. 23 \_\_\_\_\_

5. **Writing to Explain** Is there only one way to create a factor tree? Explain.

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Name \_\_\_\_\_

# Finding Prime Factors

Find the prime factorization of each composite number. If a number is prime, write *prime*.

1. 30 \_\_\_\_\_ 2. 16 \_\_\_\_\_ 3. 43 \_\_\_\_\_ 4. 35 \_\_\_\_\_

5. 42 \_\_\_\_\_ 6. 9 \_\_\_\_\_ 7. 50 \_\_\_\_\_ 8. 47 \_\_\_\_\_

9. 37 \_\_\_\_\_ 10. 25 \_\_\_\_\_ 11. 29 \_\_\_\_\_ 12. 49 \_\_\_\_\_

13. In the space below, create a factor tree for 32.

14. Field Day is in March on a day that is a prime number. Which date could it be?

- A March 4
- B March 11
- C March 18
- D March 24

15. **Writing to Explain** What is a factor tree, and how do you know when a factor tree is completed?

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