

Lesson 1 Reteach

Prime Factorization

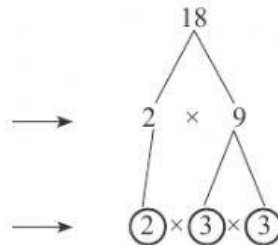
All composite numbers can be written as a product of prime numbers. This is called *prime factorization*. A factor tree can be used to write the prime factorization of a number.

Find the prime factorization of 18.

Choose any pair of whole number factors of 18. $\longrightarrow$

Continue until all factors are prime numbers.

Circle the prime numbers. $\longrightarrow$



The prime factorization of 18 is $2 \times 3 \times 3$.

You can work backward to check the prime factorization.

Multiply. $2 \times 3 \times 3 = 6 \times 3 = 18$

Find the prime factorization of each number.

1. 24 _____

2. 18 _____

3. 36 _____

4. 32 _____

5. 35 _____

6. 50 _____

7. 45 _____

8. 8 _____

9. 30 _____

10. 60 _____

11. 12 _____

12. 15 _____