Prime Factorization Using the Ladder Method

• Prime Factorization of a number is the number written as the product of its prime factors.

Write the prime factorization of 24 (using a ladder)

Choose a prime factor of 24 to begin. Keep dividing by prime factors until the quotient is 1.

The prime factorization of 24 is 2 • 2 • 2 • 3

WHEN YOU GET TO ONE, YOU'RE DONE!

Choose a prime factor of 45 to begin. Keep dividing by prime factors until the quotient is 1.

Write the prime factorization of the given number.

1) 10

2) 56

3) 22

4) 92

5) 24

6) 82

7) 85

8) 100

9) 34