

A **factor** of a **number** is a positive **integer** that can be divided evenly into that **number**.

12

$$1 \times 12$$

$$2 \times 6$$

$$3 \times 4$$

28

$$1 \times 28$$

$$2 \times 14$$

$$4 \times 7$$

All non-**prime numbers** can be expressed as a product of their **prime factors**. This is known as **prime factorization**.

12

2 and 3 are **prime factors** of 12.

$$12 =$$

28

2 and 7 are **prime factors** of 28.

$$28 =$$

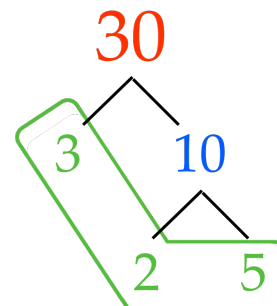
All non-prime numbers can be expressed as a product of their prime factors. This is known as prime factorization.

$$30 = 2 \times 3 \times 5$$

$$\begin{array}{l} 1 \times 30 \\ 2 \times 15 \\ 3 \times 10 \\ 5 \times 6 \end{array}$$

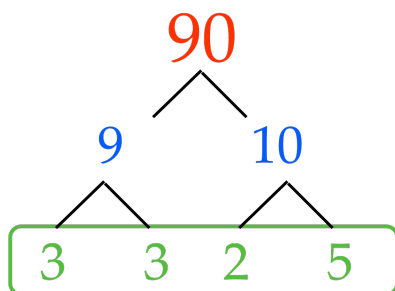
1, 2, 3, 5, 6, 10, 15 and 30 are factors of 30.
2, 3 and 5 are prime factors of 30.

Prime Factor Tree



$$30 = 2 \times 3 \times 5$$

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$$\begin{aligned} 90 &= 2 \times 3 \times 3 \times 5 \\ &= 2 \times 3^2 \times 5 \end{aligned}$$

