

## COMMON FACTORS

### What Is a Factor?

$$5 \times 4 = 20 \rightarrow 5 \text{ and } 4 \text{ are } \mathbf{FACTORS}$$

**Factors** are two numbers multiplied together to get a product (an answer to a multiplication problem).

**Example:**

**Factors of 18**  $\rightarrow$  1, 2, 3, 6, 9, 18

$$(1 \times 18 = 18 \quad 2 \times 9 = 18 \quad 3 \times 6 = 18 \quad 6 \times 3 = 18 \quad 9 \times 2 = 18 \quad 18 \times 1 = 18)$$



**PREVIEW**

**Factors of**

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$$(1 \times 12 =$$

$$12 \times 1 = 12)$$

A **common factor** is a factor of two or more numbers.

- Two numbers may have more than ONE common factor.

Factors of 18  $\rightarrow$  1, 2, 3, 6, 9, 18

Factors of 12  $\rightarrow$  1, 2, 3, 4, 6, 12

The common factors of 18 and 12 are **1, 2, 3, and 6.**

## Finding the greatest common factor of two numbers:

The **greatest common factor** of two numbers is the LARGEST number that two or more numbers have in common.

Factors of 18 → 1, 2, 3, **6**, 9, 18

Factors of 12 → 1, 2, 3, 4, **6**, 12

The **GREATEST common factor** of 18 and 12 is **6**.



**PREVIEW**

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