COMMON FACTORS

What are common factors? Let's look and learn from the examples shown.
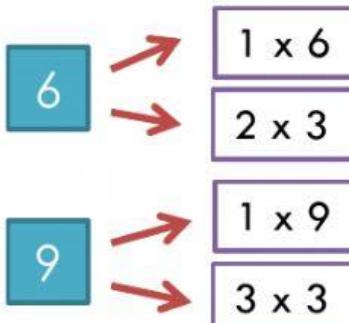
Example 1

Find the **common factors** of **6** and **9**.

Factors of 6 are 1, 2, 3 and 6.

These numbers are called COMMON FACTORS.

Factors of 9 are 1, 3 and 9.

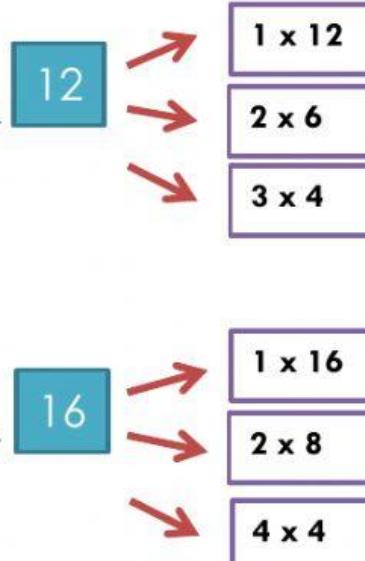| 6 |
| 1 x 6 |
| 2 x 3 |

| 9 |
| 1 x 9 |
| 3 x 3 |

Answer: The common factors of 6 and 9 are 1 and 3.

Example 2

Find the **common factors** of **12** and **16**.

Factors of 12 are 1, 2, 3, 4, 6 and 12.

| 12 |
| 1 x 12 |
| 2 x 6 |
| 3 x 4 |

Factors of 16 are 1, 2, 4, 8 and 16.

| 16 |
| 1 x 16 |
| 2 x 8 |
| 4 x 4 |

Answer: The common factors of 12 and 16 are 1, 2 and 4.

Example 3

Find the **common factors** of **4**, **6** and **12**.

Factors of 4 are ①②and **4**.

⟶ `4` ↗ 1 x 4 / ↘ 2 x 2

Factors of 9 are ①②3 and **6**.

⟶ `6` ↗ 1 x 6 / ↘ 2 x 3

Factors of 12 are ①②, 3, 4, 6 and **12**.

⟶ `12` ↗ 1 x 12 / → 2 x 6 / ↘ 3 x 4
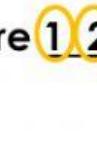
Answer: The common factors of 4, 6 and 12 are 1 and 2.

Practice these:

Find the common factors of **3** and **9**.

Factors of 3 are _____.

Factors of 9 are _____.

Answer: The common factors of 3 and 9 are _____.

Find the common factors of **4** and **20**.

Factors of 4 are _____.

Factors of 10 are _____.

Answer: The common factors of 4 and 10 are _____.

Find the common factors of **12** and **16**.

Factors of 12 are _____.

Factors of 16 are _____.

Answer: The common factors of 12 and 16 are _____.

Find the common factors of **14** and **18**.

Factors of 14 are _____.

Factors of 18 are _____.

Answer: The common factors of 14 and 18 are _____.

Find the common factors of **12** and **24**.

Factors of 12 are _____.

Factors of 24 are _____.

Answer: The common factors of 12 and 24 are _____.

- -

Find the common factors of **10**, **20** and **25**.

Factors of 10 are _____.

Factors of 20 are _____.

Factors of 25 are _____.

Answer: The common factors of 10, 20 and 25 are _____.

- -

Find the common factors of **9**, **12** and **21**.

Factors of 9 are _____.

Factors of 12 are _____.

Factors of 21 are _____.

Answer: The common factors of 9, 12 and 21 are _____.