

Factors and common factors

To find the **factors** of a number, you need to find all the pairs of numbers that multiply together to make a **product**.

$$2 \times 5 = 10$$

2 and 5 are **factors**. 10 is the **product**.

List the factors of these numbers:

1. $64 = 1, 2, 4, 16, 32, 64$

2. 48

3. 24

4. 36

5. 72

List the factors of these numbers:

6. 11

7. 17

8. 23

9. 29

10. 61

What do you notice about these numbers?

Go For It!

A common factor is a number that is a factor of more than one number e.g. the common factors of 20 and 8 are 2 and 4.

Find the common factors of:

- 1) 9 and 15
- 2) 15 and 30
- 3) 16 and 24
- 4) 11 and 7 – explain your findings

Challenge!

I am thinking of two 2-digit numbers.

Both of the numbers have a digit total of six.

Their common factors are:

1, 2, 3, 4, 6, and 12

What are the numbers?