



Can you name
these items?



factors

multiples

square numbers

$$\begin{array}{l} 6 \times 1 = 6 \\ 6 \times 2 = 12 \\ 6 \times 3 = 18 \end{array}$$

$$1 \times 1 = 1$$

$$2 \times 2 = 4$$

$$3 \times 3 = 9$$

$$4 \times 4 = 16$$

1

2

3

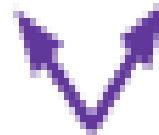
What are
factors?

What is a "Factor" ?

Factors are the numbers you multiply together to get another number:

$$\text{Factor} \nearrow 2 \times 3 = 6 \nwarrow \text{Factor}$$

$$2 \times 6 = 12$$



Factors

Finding Factors of 12

$$1 \times 12 = 12$$

$$2 \times 6 = 12$$

$$3 \times 4 = 12$$

Let's find the factors of 28.

$$1 \times 28 = 28$$

factor pair 1

$$2 \times 14 = 28$$

factor pair 2

Let's find the factors of 30.

$$1 \times 30 = 30$$

factor pair 1

$$2 \times 15 = 30$$

factor pair 2

$$5 \times 6 = 30$$

factor pair 3

Find the factors of 10.

$$1 \times 10 = 10$$

factor pair 1

$$2 \times 5 = 10$$

factor pair 1

Find the factors of 25.

$$1 \times 25 = 25$$

factor pair 1

$$5 \times 5 = 25$$

How can we find all the factors of a large number?



You'll learn the answer in the next sessions.