

## Identifying factors

A **factor** is a number that divides **exactly** into another number.

All numbers have a **factor of 1** and the **number itself**.

For example, factors of 6 are 1, 2, 3, and 6.

You can find factors of a number by looking at a multiplication square and seeing which tables the numbers appear in.

Have a look at this multiplication square to **find where the numbers in the table below appear. Then list their factors** (don't forget to put 1 and the number itself in every list).

An example has been done for you.

1	2	3	4	5	6	7	8
2	4	6	8	10	12	14	16
3	6	9	12	15	18	21	24
4	8	12	16	20	24	28	32
5	10	15	20	25	30	35	40
6	12	18	24	30	36	42	48
7	14	21	28	35	42	49	56
8	16	24	32	40	48	56	64

Number	Factors of that number
8	1, 2, 4, 8
10	
12	
15	
24	
30	

**More tips to help find factors** (you may help to use these as well as the multiplication square):

- All even numbers have a factor of two.
- If you can halve a number and it's a whole number, then that number is also a factor:  
eg half of 12 is 6 so 6 must be a factor of 12.