# FACTORS SHEET 4:1

- A factor is a number which divides exactly into another number with no remainder. A factor is the opposite of a multiple.
- All numbers (except for 1) have at least 2 factors : 1 and the number itself.

## Examples

| | | | |
|---|---|---|---|
| 12 is a multiple of 3 | so | 3 is a factor of 12 |
| 30 is a multiple of 5 | so | 5 is a factor of 30 |
| 4 x 7 = 28 | so | 4 and 7 are both factors of 28 |

Complete this table to find the factors of all the numbers up to 20.

| NUMBER | FACTORS | | NUMBER | FACTORS |
|---|---|---|---|---|
| 1 | 1 | | 11 | |
| 2 | 1,2 | | 12 | |
| 3 | 1,3 | | 13 | |
| 4 | 1,2,4 | | 14 | |
| 5 | 1,5 | | 15 | |
| 6 | 1,2,3,6 | | 16 | |
| 7 | | | 17 | |
| 8 | | | 18 | |
| 9 | | | 19 | |
| 10 | | | 20 | |

*Numbers that have exactly 2 factors (1 and themselves) are called prime numbers. Highlight all the prime numbers from 1 to 20 in the table.*

# FACTORS SHEET 4:1 ANSWERS

| NUMBER | FACTORS | | NUMBER | FACTORS |
|--------|---------|---|--------|---------|
| 1 | 1 | | 11 | 1,11 |
| 2 | 1,2 | | 12 | 1,2,3,4,6,12 |
| 3 | 1,3 | | 13 | 1,13 |
| 4 | 1,2,4 | | 14 | 1,2,7,14 |
| 5 | 1,5 | | 15 | 1,3,5,15 |
| 6 | 1,2,3,6 | | 16 | 1,2,4,8,16 |
| 7 | 1,7 | | 17 | 1,17 |
| 8 | 1,2,4,8 | | 18 | 1,2,3,6,9,18 |
| 9 | 1,3,9 | | 19 | 1,19 |
| 10 | 1,2,5,10 | | 20 | 1,2,4,5,10,20 |

*Numbers that have exactly 2 factors (1 and themselves) are called prime numbers. Highlight all the prime numbers from 1 to 20 in the table.*