

Multiples and factors

Multiples

Multiples of a number are found by **multiplying** the number by 1, and by 2, and by 3 and so on.

- Multiples of 1 are 1, 2, 3, 4, 5, 6, 7 and so on.
- Multiples of 2 are 2, 4, 6, 8, 10, 12, 14 and so on.
- Multiples of 3 are 3, 6, 9, 12, 15, 18, 21 and so on.
- Multiples of 4 are 4, 8, 12, 16, 20 and so on.

Factors

Factors of a number **divide** into it exactly (which means there's no remainder). Factors of all numbers include 1 and the number itself:

- The only factor of 1 is 1.
- The factors of 2 are 1 and 2.
- The factors of 3 are 1 and 3.
- The factors of 4 are 1, 2 and 4.
- The factors of 5 are 1 and 5.
- The factors of 6 are 1, 2, 3 and 6.
- The factors of 7 are 1 and 7.
- The factors of 8 are 1, 2, 4 and 8.

Common multiples

Common multiples of two numbers are multiples of both.

To find common multiples of 3 and 4, look at the lists in the multiples section above and circle any numbers found in both lists. You should have circled 12. If you continue the lists you'll find other common multiples: 24, 36 and so on.

Common factors

Common factors of two numbers are factors of both. Common factors of 6 and 8 are 1 and 2 - look at the factors list above to check you understand this.