



Year 6, Term 5

Target: Know the test for divisibility for numbers up to 10.

By the end of this half term, children should know and be able to recall the following facts instantly:

Key vocabulary:

sum, digit, multiple, divisible by, dividend, divisor, quotient.

Example

Key questions:

Is 207 divisible by 3?

The answer is **yes** because the sum of the digits is divisible by 3 eg:

$$2+0+7 = 9$$

9 is a multiple of 3

Divisibility Rules

A number is divisible if it can be divided evenly with no remainder.

10	if	The number ends in a 0.
9	if	When you add all the digits this number can be divided by 9.
8	if	The last 3 digits form a number that can be divided by 8.
7	if	For 3 digit numbers, double the last digit and subtract it from the first two digits. The total can be divided by 7.
6	if	The last number can be divided by 2 and the total of the digits can be divided by 3.
5	if	The last digit is a 5 or a 0.
4	if	The last two digits are a number that is divisible by 4.
3	if	The sum of the digits can be divided by 3.
2	if	The final digit is an even number .

Top Tips:

Practise little and often! Maybe take two rules per week and practise the divisibility test for those first and then move on to the next two the following week.

Useful websites:

[Divisibility Tests | NRICH](#)

[Divisibility Rules \(Tests\)](#)