

# DIVISIBILITY

How can you tell if a number divides evenly by 10 ?

This is the "divisibility rule" for the number 10



How can you tell if a number divides evenly by 5 ?

This is the "divisibility rule" for the number 5

What is the divisibility rule for the number 2 ?



## Divisibility rule for the number 3.

Add the digits in the number – and continue to do so until you have a single digit. If this divides by 3 then the original number divides by 3.

### Example:

Is 1968 divisible by 3 ?

$$1 + 9 + 6 + 8 = 24$$

$$2 + 4 = 6$$

6 divides by 3

So, 1968 is divisible by 3



### Explore

Can you find a divisibility rule for the number 4 ?

Can you find a divisibility rule for the number 6 ?



What about other numbers?



You may like to visit [www.maths.eril.net/algebra/divisibility](http://www.maths.eril.net/algebra/divisibility)

It is a bit complicated in places – especially towards the end