

'Always, Sometimes Never' Questions for Division

Dividing makes numbers smaller.

$$a \div b = b \div a$$

The sum of 4 even numbers is divisible by 4.

Multiples of 6 are 1 more, or 1 less, than a prime number.

When you square an even number, the result is divisible by 4.

$$a \times 4 = (16 \times a) \div 4$$

A number is divisible by 9 if the digital root is 9.

A number is divisible by 4 if the last 2 digits divide by 4

A number is divisible by 4 if the last 2 digits divide by 8

Multiples of 3 are divisible by 4

A number is divisible by 3 if the digital root is 5

If you take a number ending in 1 and divide by 5, the answer will have a remainder of 1.