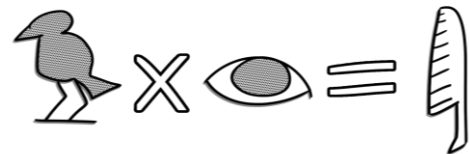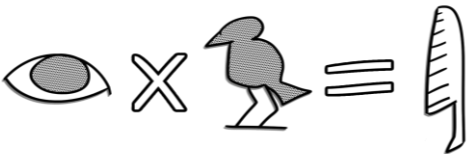If a number can be divided by another number exactly, we say is it **divisible by** that number.

49 ÷ 7 = 7 (no remainder)
so 49 is divisible by 7

Common Multiples
To find common multiples, list the multiples of each number and find those that appear in both lists. This shows that **12 is a common multiple of 3 and 4**

Prime Factors
A number is a **product** of its prime factors: factors which are also prime numbers.

We can find them using a factor tree: breaking down a number into a pair of factors until we reach prime numbers.

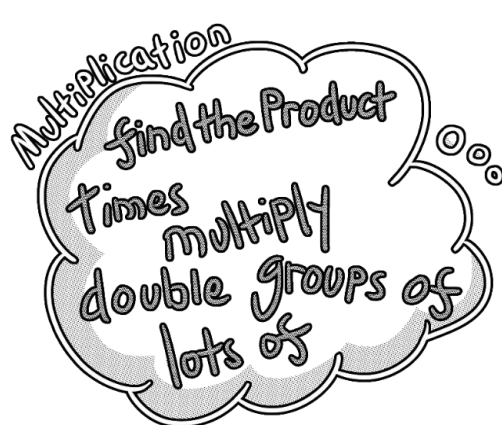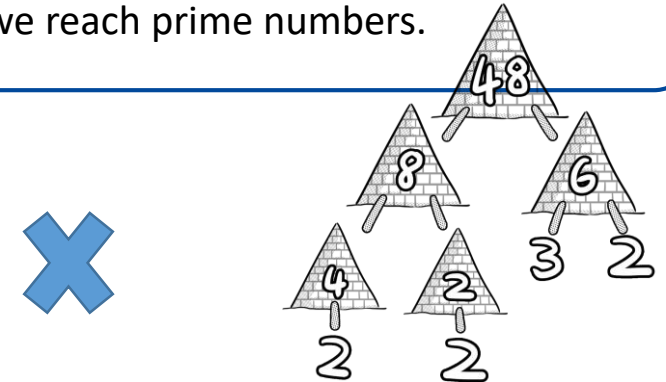| Multiples of 3	Multiples of 4
3	4
6	8
9	12
12	16

Multiplication is commutative!
The answer is the same whichever way around the calculation is placed.

The **inverse operation** has the opposite effect.

Multiplication
find the Product
times
multiply
double groups of
lots of

Division
Quotient
share
half
divide
divisible by
factor of
divisor

36
3 and 12 is a factor pair of 36
So, 36 is a multiple of 3 and 12

48
8
6
4
2
3
2
2
2