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common factor

a number that is a factor of two given numbers

I	×	24	=	24
2	×	12	=	24
3	×	8	=	24
4	×	6	=	24

 $1 \times 30 = 30$ $2 \times 15 = 30$ $3 \times 10 = 30$ $5 \times 6 = 30$

Factors of 24 are I, 2, Factors of 30 are I, 2, 3, 4, 6, 8, 12 and 24. 3, 5, 6, 10, 15 and 30.

I know that 4 is not a common factor of 24 and 30. because it is not a factor of both numbers.



common multiple

a number that is a multiple of two or more given numbers

Ι	2	3	4	5	6	7	8	q	10
II	(12)	13	14	(15)	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

multiples of 3

Ι	2	3	4	5	6	7	8	q	10
II	12	13	14	(15)	16	17	18	١٩	20
21	22	23	24	25	26	27	28	29	30

multiples of 5

Ι	2	3	4	5	6	7	8	q	10
II	12	13	14	(15)	16	17	18	١٩	20
21	22	23	24	25	26	27	28	29	30

multiples of 3 and 5



Common multiples are numbers that are in both lists.

I can see that I5 and 30 are **common multiples** of 3 and 5.

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ratio



A **ratio** compares two or more parts of the whole.



For every 3 bananas, there are 2 apples.

The **ratio** of bananas to apples is 3 to 2.

There are I2 yellow counters and 8 red counters. The **ratio** is I2:8.



3	2
6	4
q	6
12	8

The ratio is equivalent to 3:2, 6:4, and 9:6.

Power

scale factor

A scale factor says how many times bigger or smaller an object is than another one. The objects stay in the same proportion.



circumference, diameter and radius

These are all parts of a circle.

The **circumference** is the distance around a circle. It is similar to the perimeter of a polygon.



The widest part of a circle is called the **diameter**.

The **radius** is half the **diameter**. It is the distance from the centre to the **circumference**.

mean

a type of average

To find the **mean**, you work out how big each group would be if they were rearranged to be equal.









The mean of 8, 4 and 9 is 7.

pie chart



A **pie chart** is used to show fractions of a whole.





These **pie charts** show the weather in London and Cyprus in April.



You may be able to work out the exact fractions, or you may have to estimate.



Different charts can be used to show the same information.

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