

Maths week 5 lesson 3

Can I find fractions of amounts in word problems?

Fast Five - answers are on the next slide

1) $462 + 391 =$

2) $691 - 74 =$

3) $5 \times 30 =$

4) Mully is hiding behind the biggest multiple of 6 without going past the number 47. What number is Mully hiding behind?

5) What fraction of this shape is shaded?



Fast Five - answers!

1) $462 + 391 = 853$

2) $691 - 74 = 617$

3) $5 \times 30 = 150$ - this is smile method! We know that 5×3 is 15, and then we multiply by 10, because 30 is **ten times bigger** than 3.

4) Mully is hiding behind the biggest multiple of 6 without going past the number 47. What number is Mully hiding behind? **42**

5) What fraction of this shape is shaded? **$\frac{3}{8}$ of the shape is shaded.**



Let's recap what we have learnt about fractions so far this week!

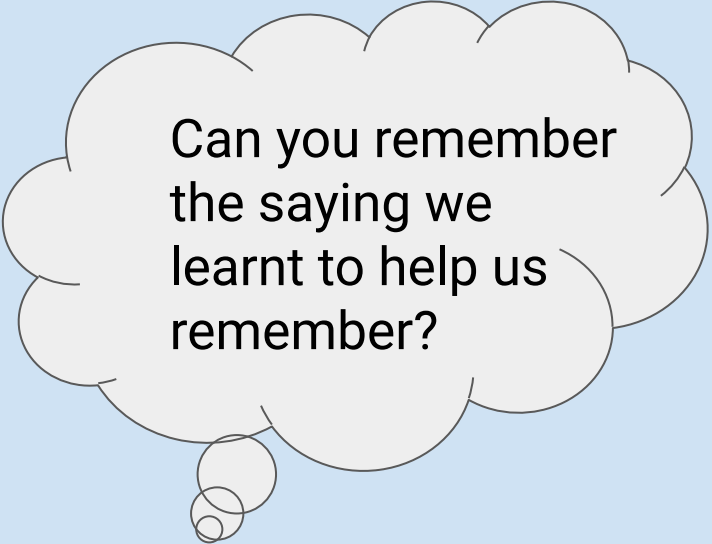
A fraction is when a whole, this can be either an object (like pizza) or a number, is split into **equal** parts.

We write fractions like this:

$$\frac{1}{4}$$

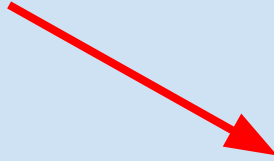
Which number is the numerator?
Which number is the denominator?

$$\frac{1}{4}$$

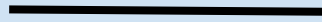


Can you remember
the saying we
learnt to help us
remember?

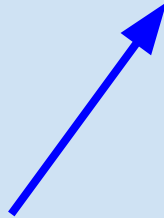
Numerator



1



4



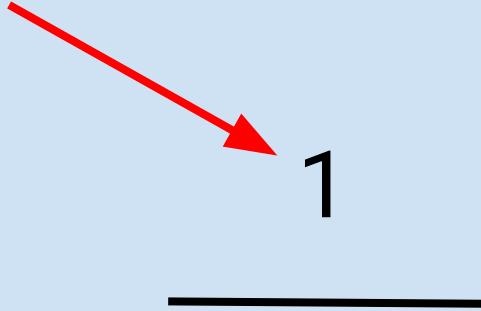
Denominator

We can remember this by telling ourselves:

The denominator is downstairs!

The denominator is the bottom number of the fraction.

Numerator



The numerator tells us how many parts of the whole we have.

Denominator

The denominator tells us how many **equal** parts we split our whole into.

When finding fractions of an amount, we can follow these steps!

Step 1 : Divide the whole amount by the denominator (remember, the denominator is downstairs!).

Step 2 : Multiply the answer you get by the numerator.

Let's try an example together!

Find $\frac{2}{5}$ of 20

Step 1 : Divide the whole amount by the denominator (remember, the denominator is downstairs!).

Step 2 : Multiply the answer you get by the numerator.

Let's try an example together!

Find 2 of 20
5

Step 1: $20 \div 5 = 4$

Step 1 : Divide the whole amount by the denominator (remember, the denominator is downstairs!).

Step 2 : Multiply the answer you get by the numerator.

Let's try an example together!

Find 2 of 20
5

Step 1: $20 \div 5 = 4$

Step 2: $4 \times 2 = 8$

Step 1 : Divide the whole amount by the denominator (remember, the denominator is downstairs!).

Step 2 : Multiply the answer you get by the numerator.

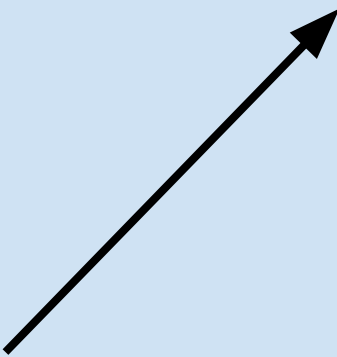
Let's try an example together!

Find $\frac{2}{5}$ of 20

Step 1: $20 \div 5 = 4$

Step 2: $4 \times 2 = 8$

So $\frac{2}{5}$ of 20 = 8



Try this question on your own!

Find $\frac{3}{4}$ of 12

Step 1 : Divide the whole amount by the denominator (remember, the denominator is downstairs!).

Step 2 : Multiply the answer you get by the numerator.

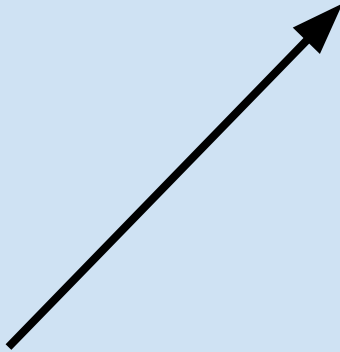
Let's try an example together!

Find $\frac{3}{4}$ of 12

So $\frac{3}{4}$ of 12 = 9

Step 1: $12 \div 4 = 3$

Step 2: $3 \times 3 = 9$



Let's try a word problem!

Our total number (whole) is 36, and we are trying to find $\frac{3}{4}$ of them

The safari park has **36** monkeys. $\frac{3}{4}$ of the monkeys are squirrel monkeys. How many squirrel monkeys live at the safari park?

Our first step is we need to identify what number is our whole, and what fraction of that whole we are trying to find!

Let's try a word problem!

Our total number (whole) is 36, and we are trying to find $\frac{3}{4}$ of them

The safari park has **36** monkeys. $\frac{3}{4}$ of the monkeys are squirrel monkeys. How many squirrel monkeys live at the safari park?

So our question is: Find $\frac{3}{4}$ of 36.

The safari park has **36** monkeys. $\frac{3}{4}$ of the monkeys are squirrel monkeys. How many **squirrel monkeys** live at the safari park?

Find $\frac{3}{4}$ of 36.

Step 1: $36 \div 4 = 9$

Step 2: $9 \times 3 = 27$

So the answer is 27 squirrel monkeys

Step 1 : Divide the whole amount by the denominator (remember, the denominator is downstairs!).

Step 2 : Multiply the answer you get by the numerator.

Try this question on your own!

A group of 60 children went on a school trip to the safari park. $\frac{7}{10}$ of the children had never been there before. For how many children was this their first visit?

Try this question on your own!

A group of 60 children went on a school trip to the safari park. $\frac{7}{10}$ of the children had never been there before. For how many children was this their first visit?

Our question is: find $\frac{7}{10}$ of 60.

Step 1: $60 \div 10 = 6$

Step 2: $6 \times 7 = 42$

So the answer is it the first visit for 42 children.

Step 1 : Divide the whole amount by the denominator (remember, the denominator is downstairs!).

Step 2 : Multiply the answer you get by the numerator.

Activities:

Fractions can be tricky, so take a moment to decide how confident you feel with solving these types of problems, and how much you want to challenge yourself!

Red - solve the fractions of amounts questions. The steps will be there to remind you.

Yellow - solve the fractions of amounts questions and the word problems. The steps will be there to remind you, and the key numbers will also be underlined to support you.

Green - solve the word problems, the key numbers will be underlined in the first few questions