Maths week 5 lesson 2

Can I find fractions of amounts?

Fast Five - answers are on the next slide

- 1) 839 + 762 =
- 2) 9864 654 =
- 3) 7 x 40 =
- 4) Mully is hiding behind the biggest multiple of 8 without going past the number 39. What number is Mully hiding behind?
- 5) What is 64 divided by 8?

Fast Five - Answers

- 1) 839 + 762 = 1,601
- 2) 9864 654 = 9,210
- 3) 7 x 40 = <mark>280</mark>
- 4) Mully is hiding behind the biggest multiple of 8 without going past the number 39. What number is Mully hiding behind? 32
- 5) What is 64 divided by 8? 8

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 or a number, is split into **equal** parts.

We write fractions like this:



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





We can remember this by telling ourselves:

The denominator is downstairs!

The denominator is the bottom number of the fraction.



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

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

Today we are going to be using pictures to help us find fractions of amounts. There are always 2 steps when we do this:

Step 1: putting the pictures *equally* into the same amount of groups as the <u>denominator</u>.

Step 2: circling the same amount of groups as the <u>numerator</u>, and adding the amount of pictures.

The rule - we divide the number by the denominator and then multiply the result by the numerator.

Find <u>3</u> of 15

Step 1 : put the pictures *equally* into the same amount of groups as the <u>denominator</u>.

We need to move the dots to make 5 groups of equal amounts.

Find <u>3</u> of 15 5

Step 1 : We need to move the dots to make 5 groups of equal amounts.

We do this by dividing the number by the denominator 15 ÷ 5 =3

So we have 5 groups of 3 dots.

Find <u>3</u> of 15 5

Step 2: circle the same amount of groups as the <u>numerator</u>, and add the amount of pictures.

Circle 3 groups (the numerator) of dots .

 $3 \times 3 = 9$

Find <u>3</u> of 15 5



Step 2: Now we need to add the amount of dots that are in those circles together.

3 x 3 = 9

So the answer is:

Let's try another example.

Find <u>2</u> of 12

Step 1 : put the pictures equally into the same amount of groups as the <u>denominator</u>.

We do this by dividing the number by the denominator 12 ÷ 6 =2

We need to move the dots to make 6 groups of equal amounts.

Find <u>2</u> of 12 <u>6</u>

Step 1 : We need to move the dots to make 6 groups of equal amounts.

So we have 6 groups of 2 dots.

We do this by dividing the number by the denominator 12 ÷ 6 =2

Find <u>2</u> of 12 **Step 2:** circle the same amount of groups as the <u>numerator</u>, and add the amount of pictures.

Circle 2 (the numerator) groups of dots.

 $2 \times 2 = 4$

Find <u>2</u> of 12 together. 6 $2 \times 2 = 4$

Step 2: Now we need to add the amount of dots that are in those circles

So the answer is:

<u>2</u> of 12 = 4 6

Let's try one last example.

Find <u>3</u> of 20

Step 1 : put the pictures *equally* into the same amount of groups as the <u>denominator</u>.

We need to move the dots to make 4 groups of equal amounts.

Find <u>3</u> of 20 <u>4</u>



Step 1 : We need to move the dots to make 4 groups of equal amounts.

We do this by dividing the number by the denominator 20 ÷ 4 =5

So we have 4 groups of 5 dots.

Find <u>3</u> of 20 4



Step 2: circle the same amount of groups as the <u>numerator</u>, and add the amount of pictures.

5 x 3 = 15

Circle 3 groups of dots.

Find <u>3</u> of 20 4



Step 2: Now we need to add the amount of dots that are in those circles together.

5 x 3 = 15

So the answer is:

<u>3</u> of 20 = 15 4 Try this question on your own! You can draw circles on a piece of paper.

Find 1 of 9

Step 1: Make 3 equal groups.

Find 1 of 9

Step 2: Circle 1 group. Because there is only one circle, it is only those dots that we need to count.

9 ÷ 3 = 3 3 x 1 = 3

<u>1</u> of 9 = 3 3

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. The steps will be there to remind you, but try to cover them up if you feel confident!

Green - solve the fractions of amounts questions.