

**Year 4 Maths 20.05.20**

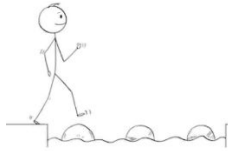
**Steppingstone activity**

**LO: To find a fraction of a quantity**

**Success Criteria:**

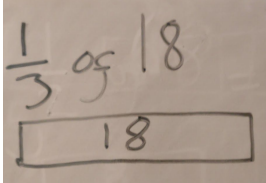
- |   |
|---|
| 1. Make a bar model of your fraction                |
| 2. Divide the model/whole number by the denominator |
| 3. Multiply by the numerator (Shade the model)      |
| 4. Write your answer                                |

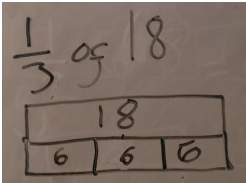
**Model**

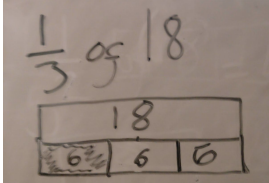


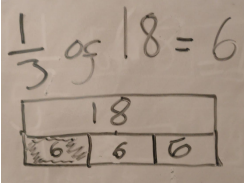
**3** ← **Numerator**  
How many equal parts do you have?

**4** ← **Denominator**  
How many equal parts is the whole divided into?

1. 

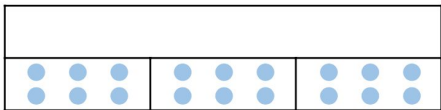
2. 

3. 

4. 

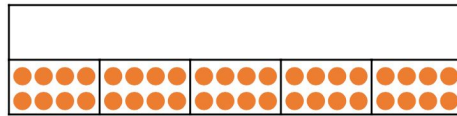
Now you try... Make equivalent fraction of the one below

1a. Rosie is finding fractions of an amount. She knows that  $\frac{1}{3}$  of her number is 6.



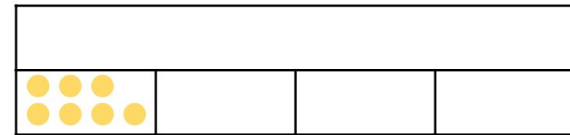
Use the bar model to find the whole.

1b. Jake is finding fractions of an amount. He knows that  $\frac{1}{5}$  of her number is 8.



Use the bar model to find the whole.

2a.  $\frac{1}{4}$  of a number is 7.



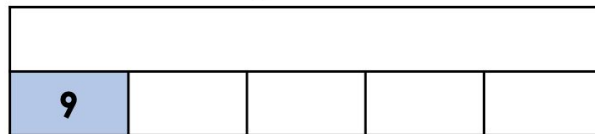
Complete the bar model to find the whole.

2b.  $\frac{1}{2}$  of a number is 11.



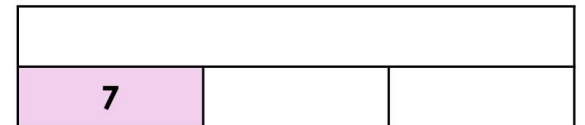
Complete the bar model to find the whole.

3a. Anna knows  $\frac{1}{5}$  of a number is 9.



$\frac{1}{5}$  of  =

3b. Ellan knows  $\frac{1}{3}$  of a number is 7.



$\frac{1}{3}$  of  =

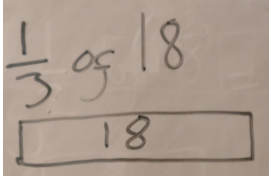
**Lesson 20.05.20**

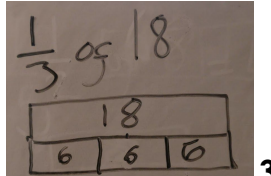
**LO: To find a fraction of a quantity**

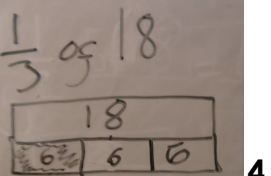
**Success Criteria:**

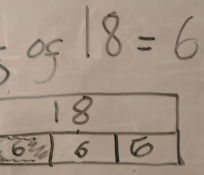
- |   |
|---|
| 1. Make a bar model of you fraction                 |
| 2. Divide the model/whole number by the denominator |
| 3. Multiply by the numerator (Shade the model)      |
| 4. Write your answer                                |

**Model:**

1. 

2. 

3. 

4. 



**3**  
—  
**4**

**Numerator**

How many equal parts do you have?

**Denominator**

How many equal parts is the whole divided into?

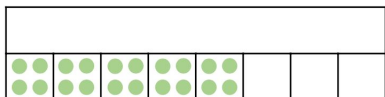
**Year 4 Maths Main activity**

Complete at least 2 columns, more if you can!

**Task 1**

**Practice: Use the bar model to find the whole**

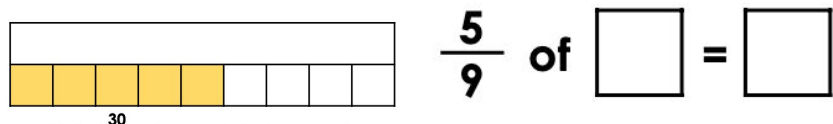
Marco is finding fractions of an amount. He knows that  $\frac{5}{8}$  of his number is 20.



Millie is finding fractions of an amount. She knows that  $\frac{5}{12}$  of his number is 30.

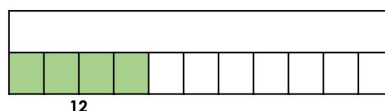


Georgie knows  $\frac{5}{9}$  of a number is 30.



$\frac{5}{9}$  of  =

Benny knows 4 of a number is 12.



$\frac{4}{11}$  of  =

5.  $\frac{1}{4}$  of 44 = ?

6.  $\frac{1}{10}$  of 90 = ?

7.  $\frac{3}{5}$  of 15 = ?

8.  $\frac{7}{10}$  of 50 = ?

**Extension**

8a. George has a packet of sweets.

He has eaten  $\frac{4}{9}$  of the packet.

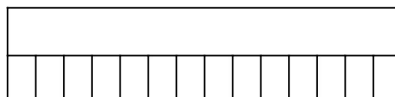
He has eaten 16 sweets.

How many sweets were in the packet before George started eating them?

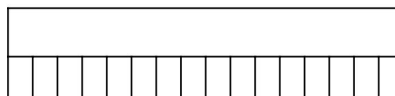
**Task 2**

**Practice: Use the bar model to find the whole**

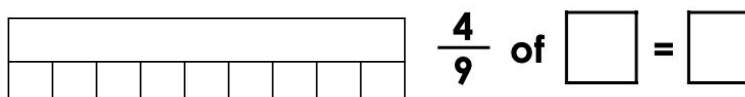
Pippa is finding fractions of an amount. She knows that  $\frac{2}{14}$  of her number is 6.



Dylan is finding fractions of an amount. He knows that  $\frac{4}{16}$  of his number is 10.

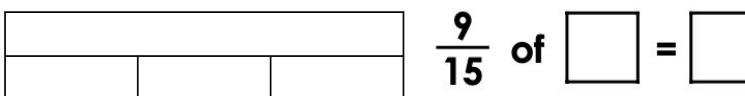


Philip knows  $\frac{6}{9}$  of a number is 72.



$\frac{6}{9}$  of  =

Alice knows  $\frac{10}{15}$  of a number is 30.



$\frac{10}{15}$  of  =

5.  $\frac{4}{5}$  of 80 = ?

6.  $\frac{3}{5}$  of 85 = ?

7.  $\frac{6}{10}$  of 90 = ?

8.  $\frac{3}{8}$  of 96 = ?

**Extension**

12a. Leo and Liz are eating chocolates.

Leo has eaten  $\frac{1}{4}$  of the box.

Liz has eaten  $\frac{3}{8}$  of the box.

If Leo has eaten 10 chocolates, how many did Liz eat?

How many chocolates were in the box before they were opened?

**Task 3****Reasoning**

Explain your answers.

**4a. Margot completes the following calculation in her book but she has made a mistake.**

If  $\frac{2}{9}$  is 18, then the whole is 36.

**Find the mistake that she has made.**

**Draw a bar model to prove your answer.**

**8a. Nathaniel is calculating a whole number from a fraction.**

He says,



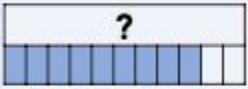
I know  $\frac{6}{9}$  of a number is 12. To find the whole I can divide by 2 and multiply by 3.

**Is he correct? Explain how you know.**

Task 4

**Problem solving**

1. Use the dominoes to create a continuous loop by matching whole numbers to the correct representation or calculation.



?


54

35

$\frac{3}{8}$  of ? = 24



$\frac{6}{8}$  of ? = 54

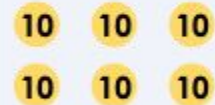




?

21

48


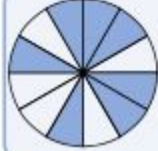
$\frac{3}{5}$  of ? = 15

= 54

66

$\frac{4}{12}$  of ? = 16

= 35

