Canonbury Home Learnina

Year 3 Maths

Steppingstone activity





Numerator (number on the top)



Denominator

Lesson 32 LO: To use non-unit fractions

- 1. Count how many equal parts there are altogether. Write it as your denominator.
- 2. Count how many parts have been shaded. Write it as your numerator.

Model: What fraction of this shape has been shaded?



First, count how many equal parts there are altogether. There are 4.

This tells us the **denominator**:

Next, count how many parts have been shaded. There are 3.

This tells us the **numerator**: $\frac{1}{4}$

So: 3 out of 4 parts are shaded or we can say 3/4 of the shape is shaded.

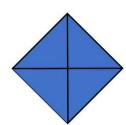
Now you try:

What fraction of this shape has been shaded?

a)



b)



Now complete the questions below.

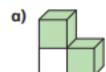
Canonbury Home Learning **Steppingstone activity**

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Non-unit fractions



Complete the sentences.



There are 3 equal parts.

There are 2 parts shaded.

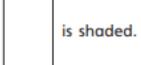






There are equal parts.

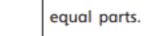
There are parts shaded.



c)

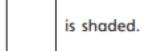


There are

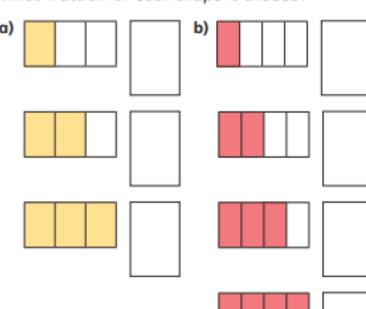


There are par

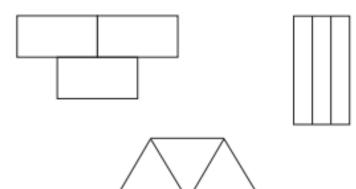




What fraction of each shape is shaded?



3 Colour $\frac{2}{3}$ of each shape.



Year 3 Maths Lesson 32

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LO: To find fractions of amounts

Success Criteria:

- 1. Look at the denominator e.g. 1/4
- 2. Split the bar into the number of parts the denominator says e.g. 4
- 3. Divide the amount equally between the parts
- 4. Count how many in one part

<u> Model:</u>

Sarah had 20 seeds.

 $\frac{1}{2}$ the seeds were basil.

How many seeds were basil?

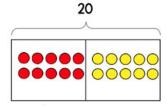
Use a bar model to help.



The denominator of $\frac{1}{2}$ is 2. So split the bar into 2 parts.



Now share 20 equally between the two bars:

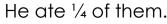


$$\frac{1}{2}$$
 of 20 = 10

$$20 \div 2 = 10$$

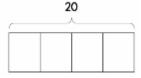
<u> Model:</u>

Juliet's bunny Rex had 20 dandilions in his run.

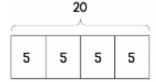


How many did he eat?

The denominator of $\frac{1}{4}$ is 4. So split the bar into 4 parts.



Now share 20 equally between the four bars:



 $\frac{1}{4}$ of 20 = 5

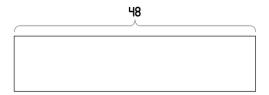
$$20 \div 4 = 5$$

Now you try:

a) 1/5 of 20 =

20

b) $\frac{1}{4}$ of 48 =



Tip! You could use place value counters to help divide the tens first, then the ones.



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Year 3 Maths – Main activity



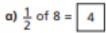
Fractions of a set of objects (1)



Here are some counters.



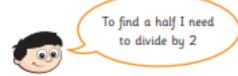
- a) Circle $\frac{1}{4}$ of the counters.
- b) How many counters did you circle?
- c) What is $\frac{1}{4}$ of 12?
- 2 Draw counters in the bar models to help you complete each number sentence. The first one has been done for you.





- b) ½ of 16 =
 - 1/4 of 8 =
- d) 1/4 of 16 =





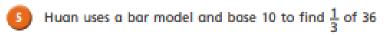
Do you agree with Dexter?

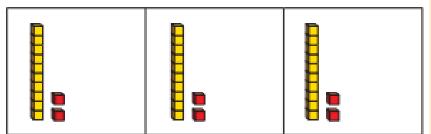
Talk about it with a partner.

Complete the table.

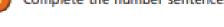
Fraction	Division	Example	Drawing
one half	divide by 2	$\frac{1}{2}$ of 6 = 3	***
one quarter		1/4 of 8 = 2	

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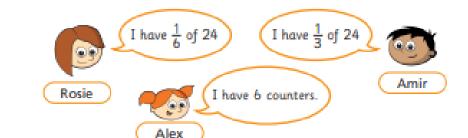


$$\frac{1}{2}$$
 of $= 30$ c) $\frac{1}{5}$ of

b)
$$\frac{1}{4}$$
 of = 20

Use Huan's method to complete the calculations.

- a) $\frac{1}{3}$ of 63 =
- c) $\frac{1}{4}$ of 92 =
- b) $\frac{1}{4}$ of 48 =



Rosie, Amir and Alex each find a fraction of 24 using counters.

Nijah uses a bar model and place value counters to find $\frac{1}{3}$ of 36



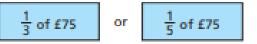
a) Order the children from least counters to most counters.



- Use Nijah's method to complete the calculations.
- a) $\frac{1}{3}$ of 96 =
- c) 1/4 of 52 =
- b) 1/5 of 60 =

- b) What fraction of the counters does Alex have?
- c) Rosie and Amir put their counters together.
 Write their total number of counters as a fraction of 24

Which amount is greater? Tick your answer.



Show your workings.



