Canonbury Home Learning
Year 3 Maths
Steppingstone activity



## Lesson 27

#### LO: To find a quarter

Begin by watching this BBC
Bitesize clip about halves and
quarters: <a href="https://www.bbc.co.uk/bitesize/topics/z3rbg82/articles/zq2yfrd">https://www.bbc.co.uk/bitesize/topics/z3rbg82/articles/zq2yfrd</a>



A quarter means '<u>one</u> of four <u>equal parts'</u>



A quarter is a type of **fraction**.

Fraction means part of a whole.

<u>Model:</u> Quarters must be equal (the same size). Here are some paper shapes folded into four quarters:





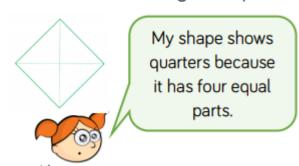
Task 1:

Use some paper (e.g.from your exercise book) and turn it into a square by folding it and cutting it like this:

Now see how many different ways you can fold the square into quarters – remember the four parts must be equal!

# Task 2:

Alex and Jack are talking about quarters.



My shape shows quarters because it has four parts.



Jack

Are they correct? Explain your answer.

## Year 3 Maths Lesson 27

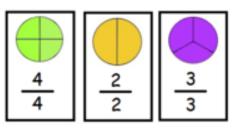


### LO: Makina a whole

#### **Success Criteria:**

- 1. Count how many in one colour (numerator)
- 2. Count how many altogether (denominator)
- 3. Write a whole, meaning the numerator and denominator are the same.

What do you notice about these fractions which show a whole?



The numerator and the denominator are the same!

E.g. The circle is divided into 4 equal parts, and all four of them are coloured in, so we write  $\frac{1}{4}$ .

# Model:

These sentences describe the apples:



 $\frac{1}{7}$  of the apples are red (4 out of the 7 apples are red)

 $\frac{3}{7}$  of the apples are green. (3 out of the 7 apples are green)

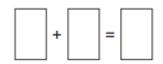
 $\frac{4}{7}$  and  $\frac{3}{7}$  make one whole.  $\frac{4}{7} + \frac{3}{7} =$ 

$$\frac{4}{7} + \frac{3}{7} = \frac{7}{7}$$

Now you try: Here are some footballs:



- What fraction of the footballs are yellow?
- What fraction of the footballs are orange?
- Complete the number sentence:



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### Year 3 Maths - Main activity



# Making the whole



Here are some counters.



- a) What fraction of the counters are yellow?
- b) What fraction of the counters are red?
- c) Complete the number sentence.



Here is a tower of cubes.



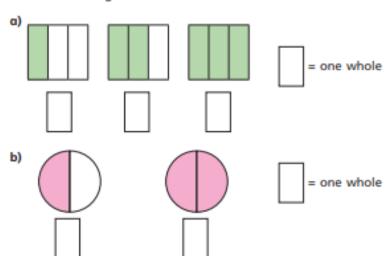
- a) What fraction of the tower is green?
- b) What fraction of the tower is blue?
- c) Complete the number sentence.

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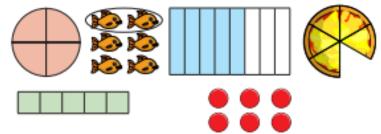
What fraction of each shape is shaded?

Which fraction represents a whole?

Fill in the missing fractions.



Here are some pictures.



Use the pictures to help you answer the questions.

a) Write three fractions that are less than one whole.



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b) Write three fractions that are equal to one whole.

What do you notice? Talk about it with a partner.



Choose a phrase to complete the sentences.

greater than

less than

equal to

When the numerator is \_\_\_\_\_\_ the denominator, the fraction is less than one whole.

When the numerator is \_\_\_\_\_\_ the denominator, the fraction is equal to one whole.

Circle the fractions that are equivalent to one whole











Here are  $\frac{1}{3}$  of Jack's marbles.

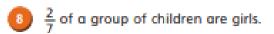






Draw the rest of Jack's marbles in the bar model.





	1		4	
	1		4	
			1	
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What fraction are boys?

	are	boys.
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Each bar model is worth one whole.

Split the bar model and label the missing fractions.

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Complete the number sentences.

a) 
$$\frac{3}{5}$$
 + =

c) 
$$=\frac{2}{7}+\frac{5}{7}$$

$$+\frac{4}{10}=1$$

d) 
$$\frac{9}{9} = + \frac{5}{9}$$