CANONBURY PRIMARY SCHRO create, discover and succeed together

## Lesson 27

LO: To find a quarter
Begin by watching this BBC Bitesize clip about halves and quarters:https://www.bbc.co.uk/bitesize/t opics/z3rbg82/articles/zq2yfrd


A quarter means 'one of four equal parts'


A quarter is a type of fraction.
Fraction means part of a whole.

Model: 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.


Are they correct?
Explain your answer.

## LO: Making 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 $\frac{\mathbf{4}}{\mathbf{4}}$.

## Model:

These sentences describe the apples:

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

Now you try: Here are some footballs:
a) What fraction of the footballs are yellow?
b) What fraction of the footballs are orange?
c) Complete the number sentence:


## 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.


3 What fraction of each shape is shaded?
Which fraction represents a whole?
Fill in the missing fractions.
a)


b)


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.
(5) Choose a phrase to complete the sentences.
greater than less than equal to

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

When the numerator is $\qquad$ the denominator, the fraction is equal to one whole.
6) Circle the fractions that are equivalent to one whole
$\frac{3}{5}$ $\square$ $\frac{6}{10}$

$\frac{10}{10}$

$\frac{3}{3}$ $\frac{5}{5}$
(7) Here are $\frac{1}{3}$ of Jack's marbles.


Draw the rest of Jack's marbles in the bar model.
(8) $\frac{2}{7}$ of a group of children are girls.

|  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

What fraction are boys?

9 Each bar model is worth one whole.
Split the bar model and label the missing fractions.
$\square$
$\square$

| $\frac{7}{10}$ |  |
| :--- | :--- |

10
Complete the number sentences.
a)
$\frac{3}{5}+\square=1$
c)

b)

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

