

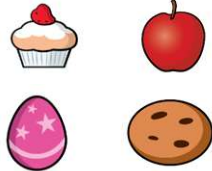


1. Finding half of a shape

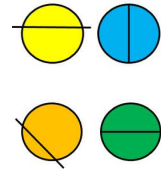
recognise, find and name a half as one of two equal parts of an object or shape

Look at a range of real-life objects and how they can be cut in half.

How can these objects be cut in half?
Can any be cut in half more than one way?



Which circles have been cut into equal halves?

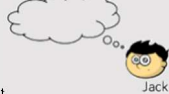


Match the halves to make 5 complete shapes.



Problem solving:

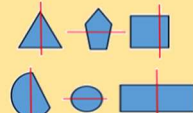
Eva and Jack are both trying to split a rectangle in half.



Jack thinks he can find 3 more ways to do it.
Can you find Jack's 3 ways?

Reasoning:

Sort the shapes into the table.



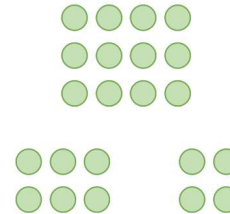
Can you add any more shapes?

Shapes that are split in half	Shapes that are not split in half

2. Finding half of a quantity

recognise, find and name a half as one of two equal parts of a quantity

Find half of each amount.



Find half of the amounts and complete the stem sentences.

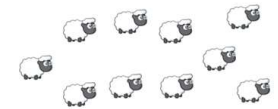


There are ___ beads.
Half of ___ is ___



There are ___ marbles.
Half of ___ is ___

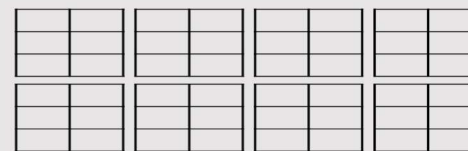
Find half of the sheep.



There are ___ sheep.
Half of ___ is ___

Problem solving:

How many different ways can you shade one half of these shapes?



Reasoning:

It is hard to find half of an odd number.



Do you agree with Mo? Prove it.

3. Finding quarter of a shape

recognise, find and name a quarter as one of four equal parts of an object or shape

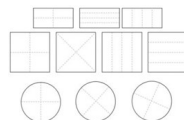
Fluency:

Take 2 square pieces of paper, 2 circular pieces and 2 rectangular pieces. Fold one of each into 4 equal parts and one into 4 unequal parts.

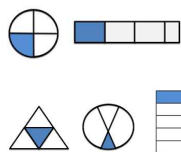
Ask:

Which shapes show equal parts? Which do not?
Can we fold them a different way and still get equal parts?

Colour a quarter of each shape. Can you do it different ways?



Tick the shapes that show quarters.



Problem solving:

Use the squares to show:

Less than a quarter shaded



Exactly a quarter shaded



More than a quarter shaded



Reasoning:

Alex and Jack talk about quarters:



My shape shows quarters because it has four equal parts.

My shape shows quarters because it has four parts.



Are the correct?
Explain why?

4. Finding quarter of a quantity

recognise, find and name a quarter as one of four equal parts of a quantity

Fluency:

Share each quantity into 4 equal groups:



There are ___ cakes.
There is ___ cake in each quarter.
A quarter of ___ is ___



There are ___ sweets.
There are ___ sweets in each quarter.
A quarter of ___ is ___



There are ___ peaches.
There are ___ peaches in each quarter.
A quarter of ___ is ___

Use a range of containers and rice or water.
Can you show a quarter full in each container?
Do they look the same or different?

Use counters to complete the sentences:

A quarter of 4 is ___ A quarter of 8 is ___

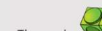
1 is one quarter of ___ 3 is one quarter of ___

Problem solving:

One cube is a quarter, what could the whole look like?



Two cubes are a quarter, what could the whole look like?



Three cubes are a quarter, what could the whole look like?



How many different possibilities can you make?

Reasoning:

The children put $\frac{1}{4}$ of the balls in the hoop.



Teddy: I'm going to put one ball in the hoop.

Whitney: I'm going to put three balls in the hoop.

Tommy: I'm going to put four balls into the hoop.

Who is correct? Can you explain any mistakes made?

Vocabulary

fraction

half

quarter

equal groups