

YEAR 1 MATHS

Term 5 Week 1

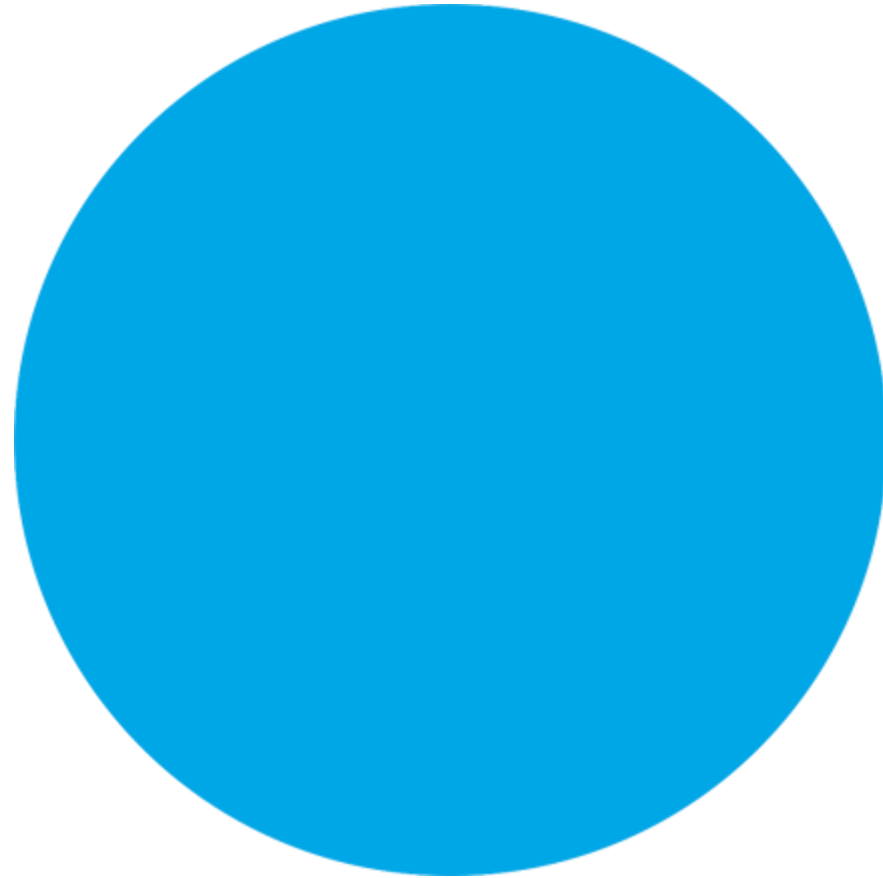
This week - Fractions

- Each session should take about 30 minutes.
- This week we are focusing on:
 - Session 1 - Finding half or quarters of shapes.
 - Session 2 - Finding half of an amount – dividing by 2.
 - Session 3 - Finding quarter of an amount – dividing by 4.
 - Sessions 4 and 5 - Solve problems involving halves and quarters.

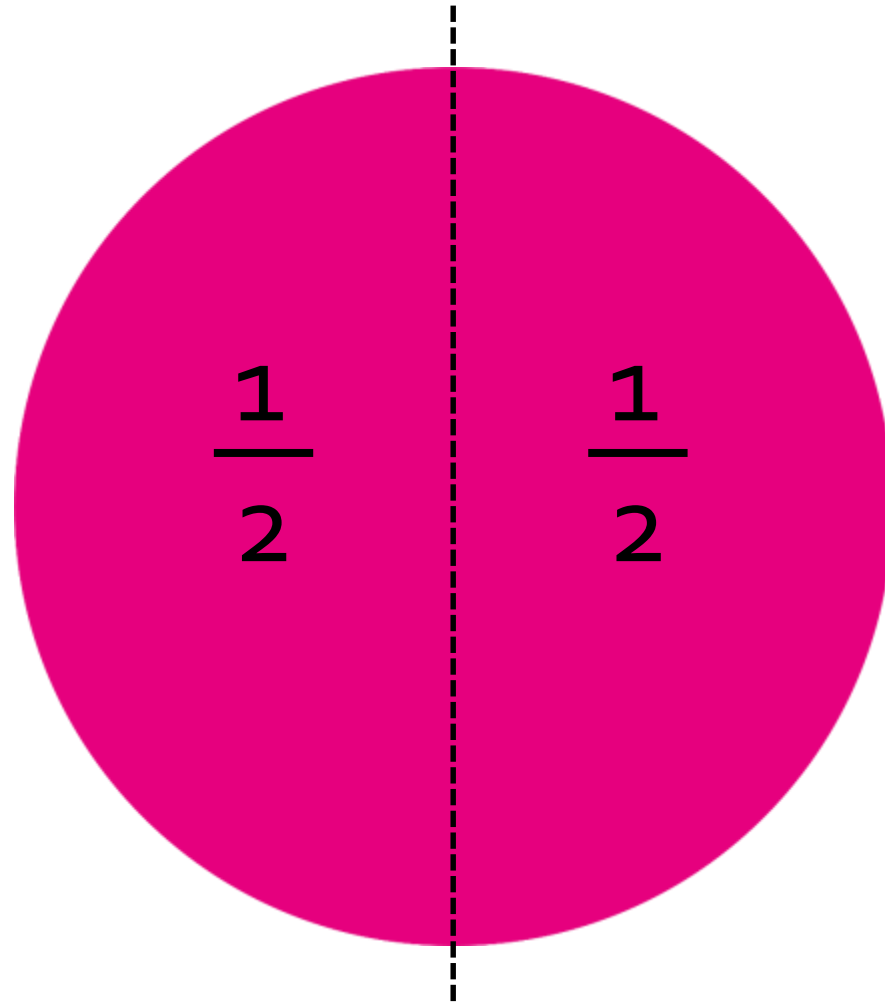
Session 1

- Use the next pages to remind your child of halves and quarters.
- Try colouring the fractions on the activity sheet. Alternatively you could practically find half or quarter of objects. For example, by cutting an apple into halves and quarters or by drawing shapes for them to split into the fractions.
- To finish, try the challenge - How many different ways can we make half?

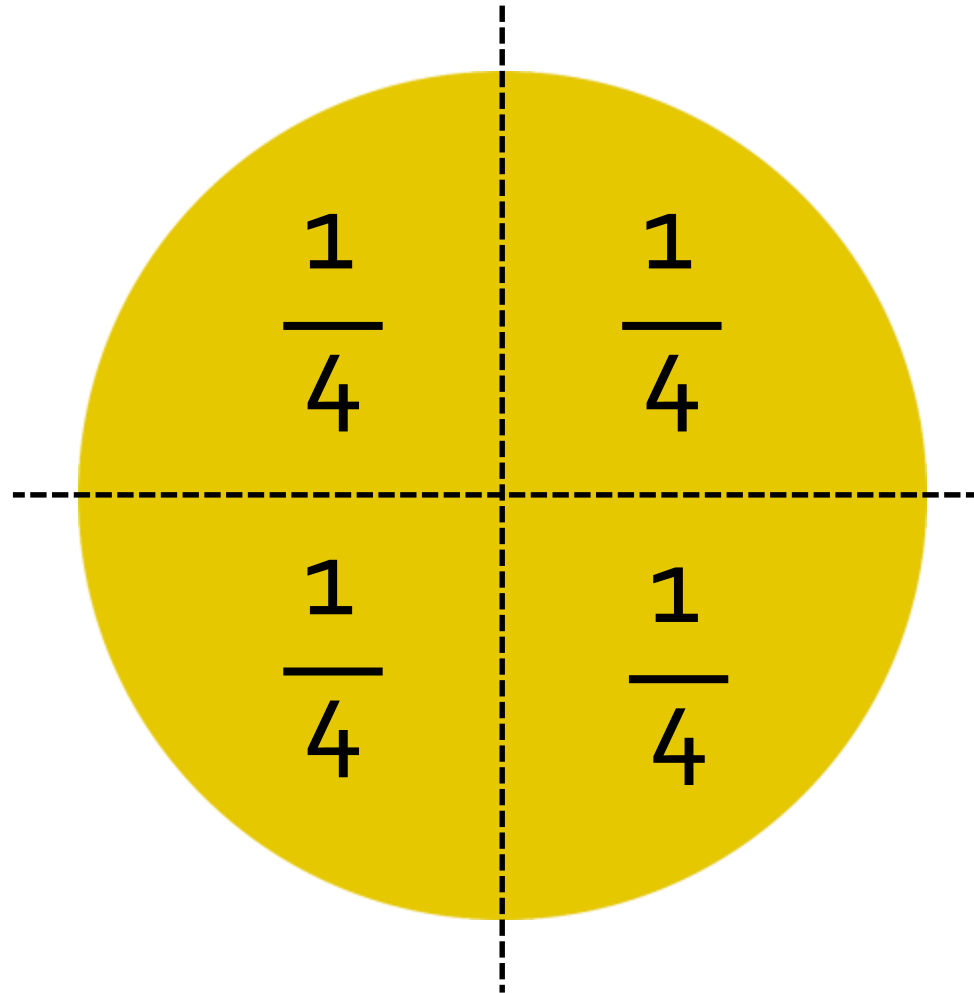
One whole



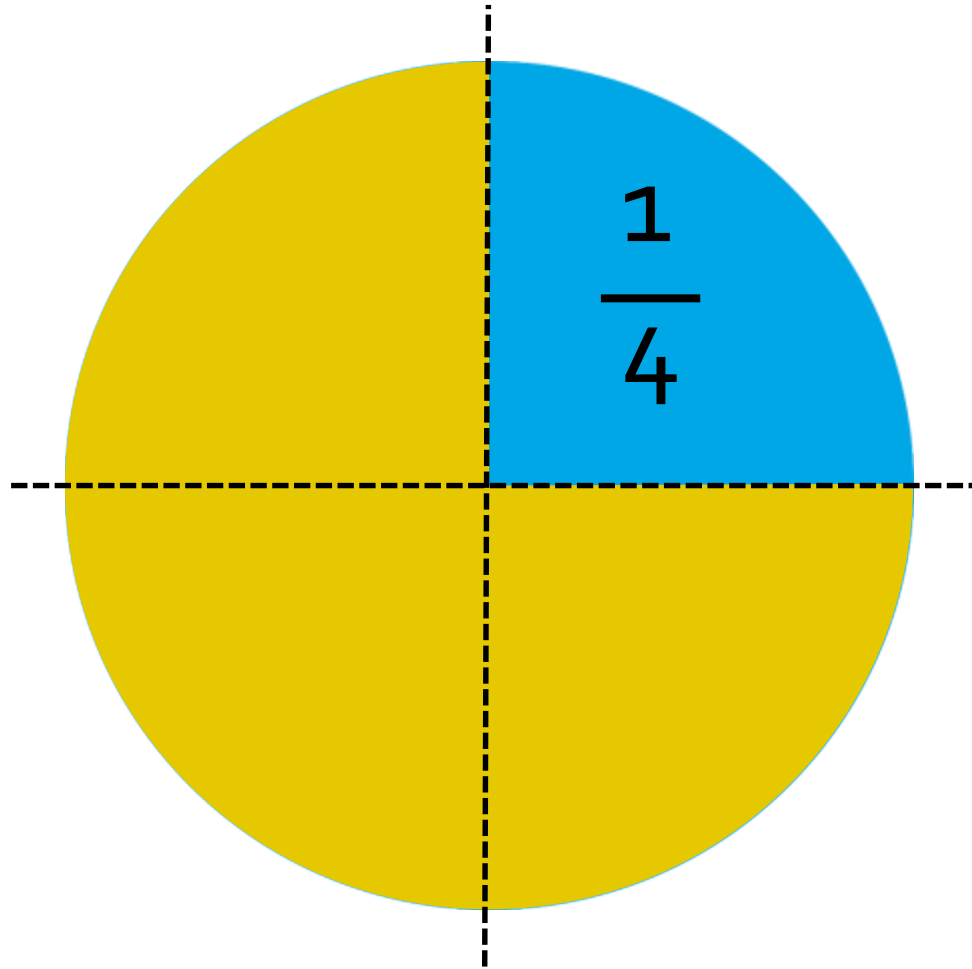
2 halves make a whole



4 quarters make a whole

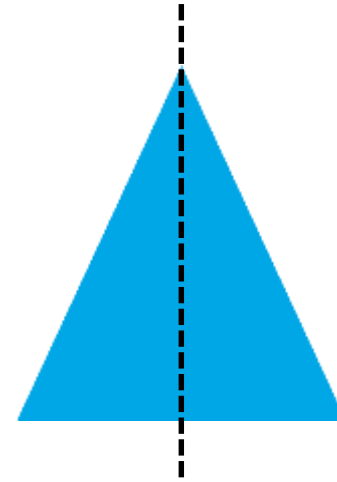
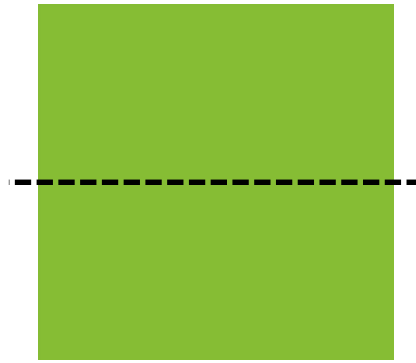
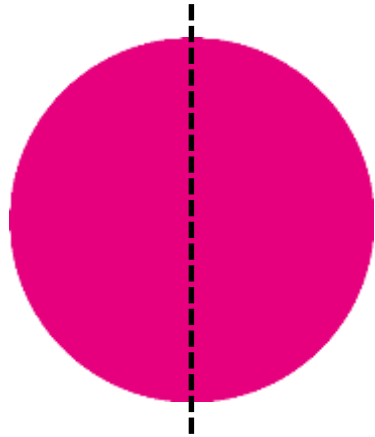


3 quarters
 $\frac{3}{4}$



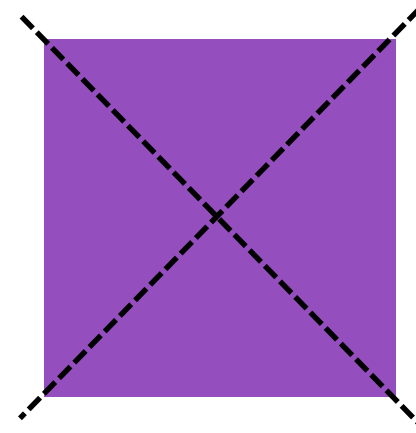
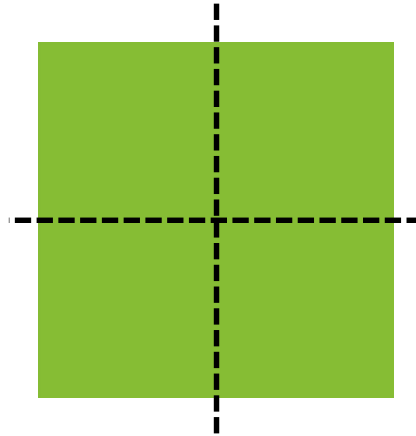
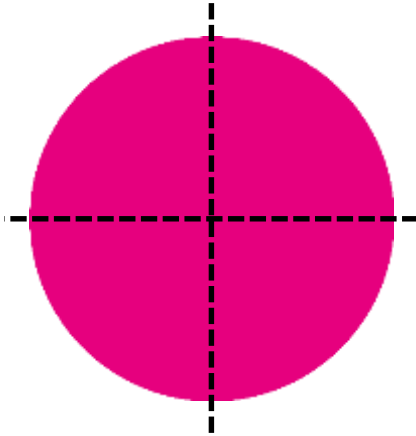
Test Yourself!

Name the fractions shown:



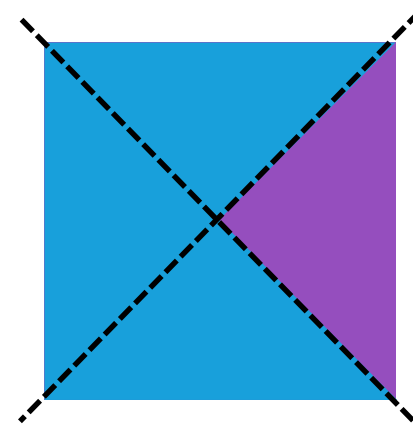
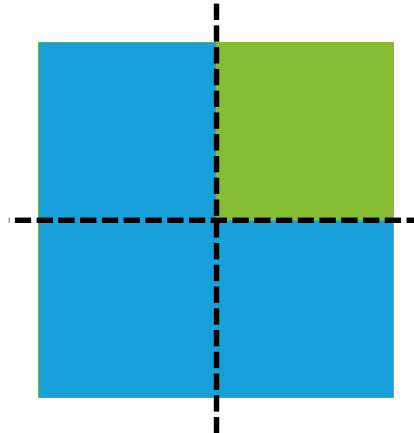
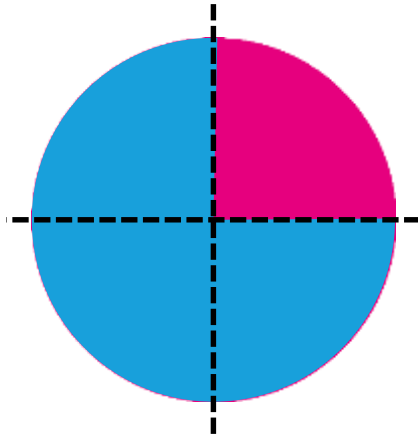
Test Yourself!

Name the fractions shown:

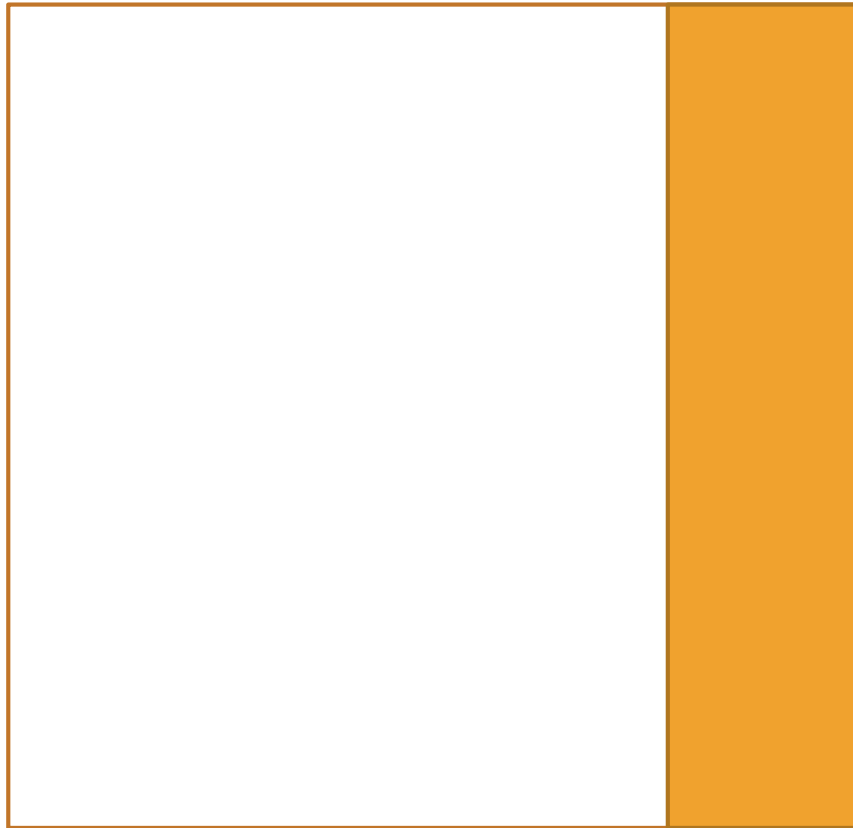


Test Yourself!

Name the fractions shown:

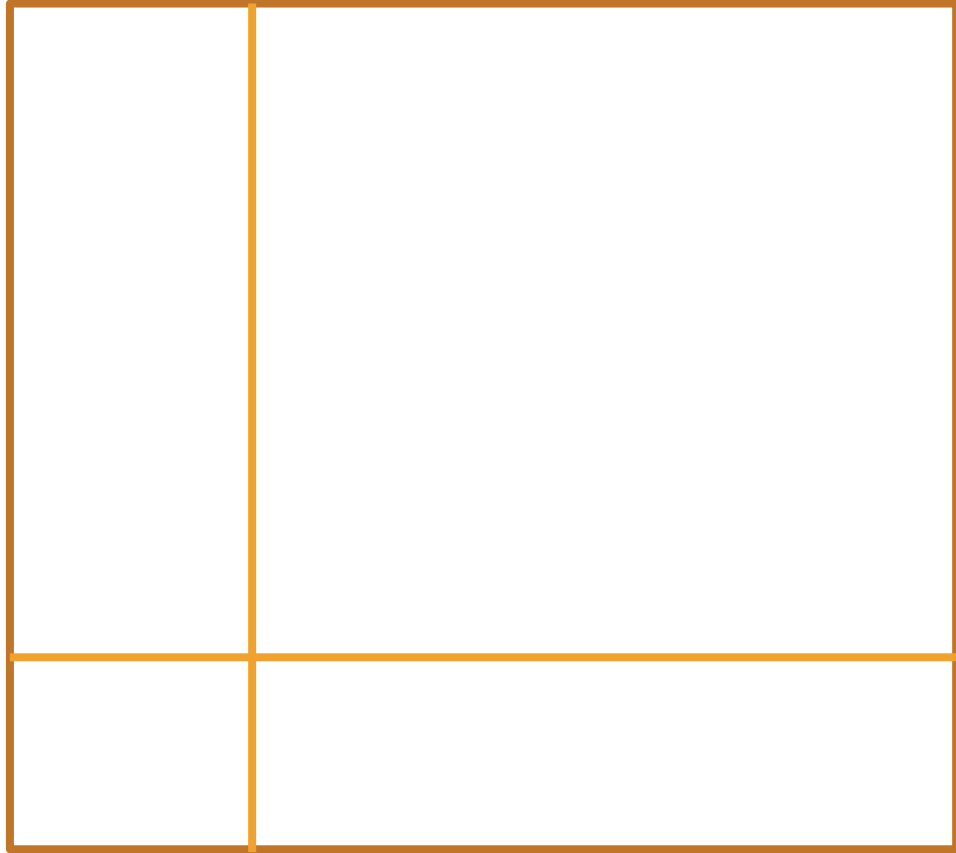


Does this show exactly a half?



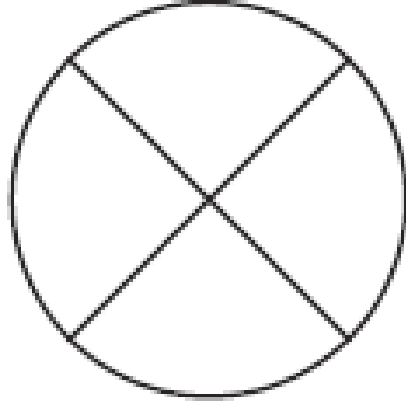
No this is not split in half.
Remember that each half has to be exactly equal.
This means that both sides are the same.

Does this show exactly quarters?

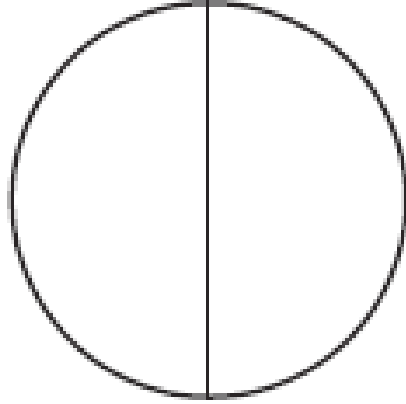


No, because again each of the 4 parts should be the same size.

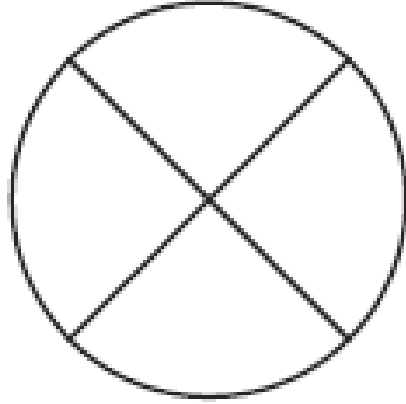
Read and Colour the Fractions



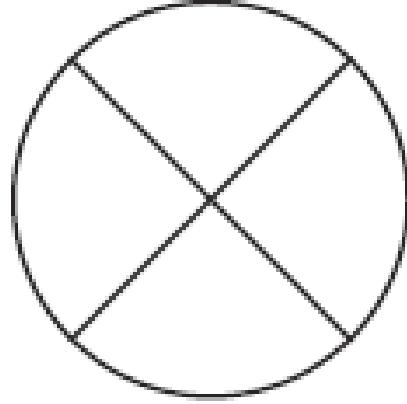
one quarter



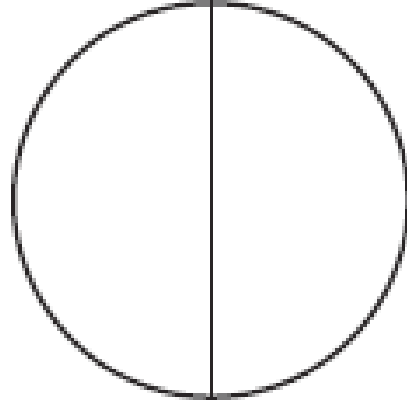
one half



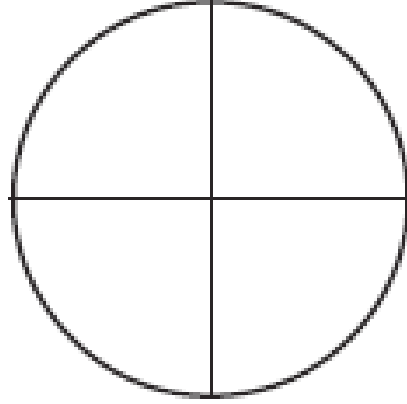
three quarters



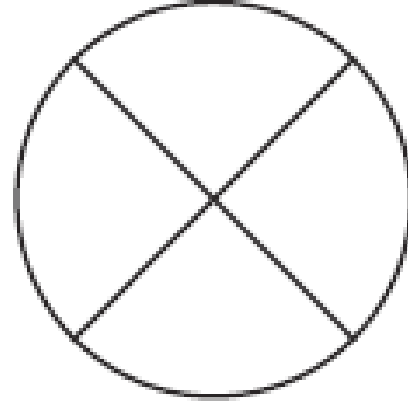
whole



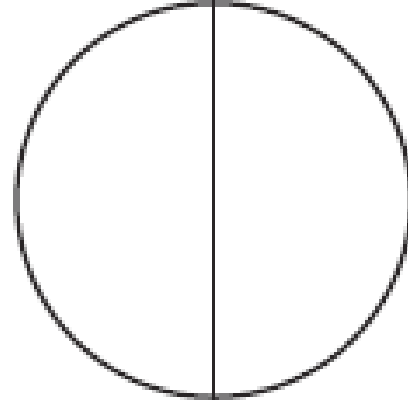
one half



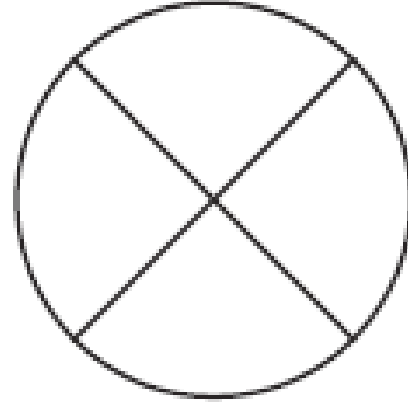
one quarter



$\frac{1}{4}$



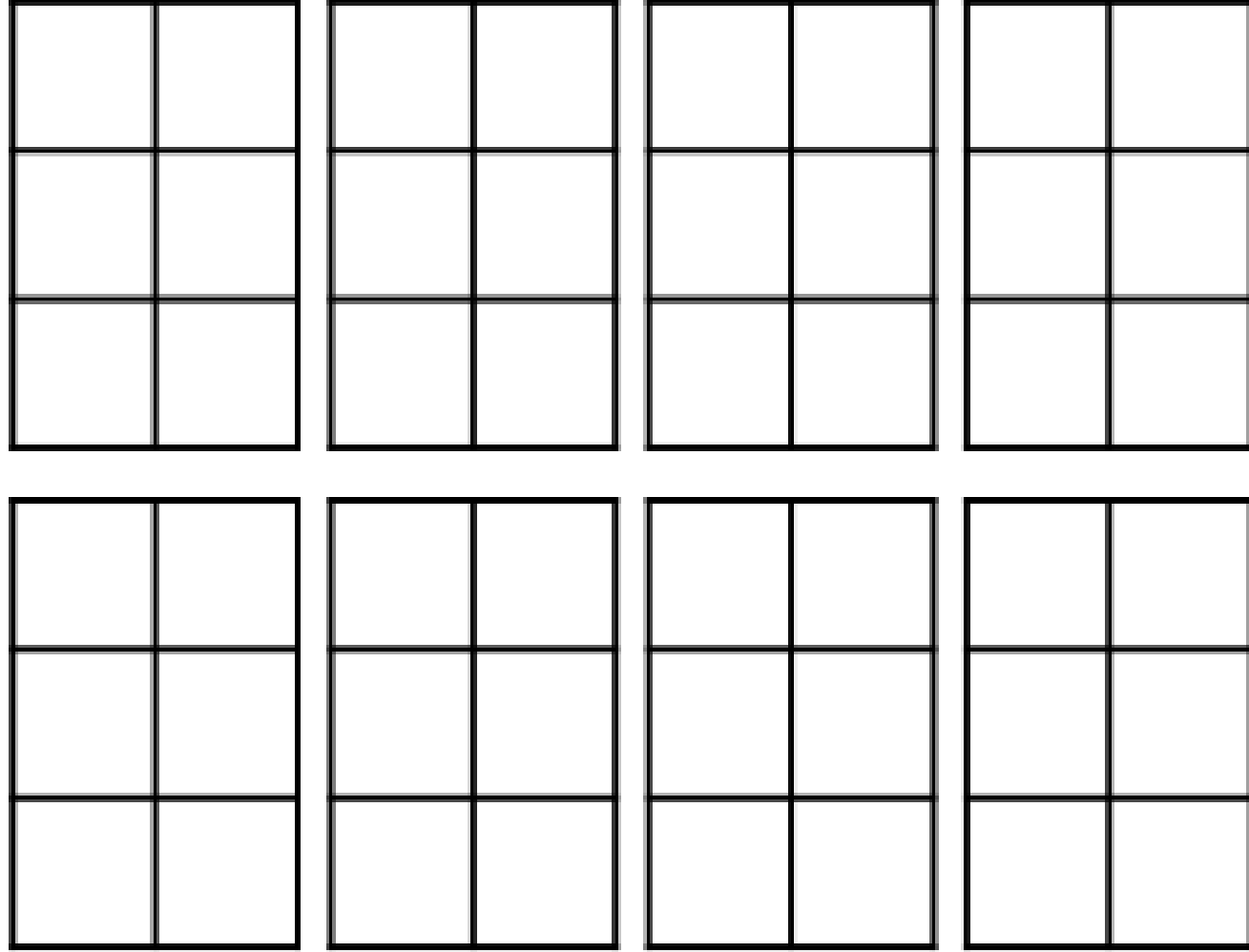
$\frac{1}{2}$



$\frac{3}{4}$

How many different ways can we make half?

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



Session 2

- Watch the video “Finding half of an amount”.
- Then try one set of these questions.

Set 1	Set 2	Set 3
Half of 4	Half of 10	Half of 14
Half of 8	Half of 18	Half of 20
Half of 2	Half of 12	Half of 22
Half of 6	Half of 16	Half of 26

- Lastly, try the problem on the next page.

Mo is finding halves.

It is hard to find half
of an odd number.



Do you agree with Mo?
Explain your answer.

See the next page for the answer.

Answer

Possible answer:
I agree with Mo
because an odd
number cannot be
shared equally
between 2.
It would not give a
whole number
answer.

Session 3

- Watch the video “Finding quarter of an amount”.
- Then try one set of these questions.

Set 1	Set 2	Set 3
Quarter of 4	Quarter of 16	Quarter of 24
Quarter of 8	Quarter of 20	Quarter of 28
Quarter of 12	Quarter of 24	Quarter of 32
Quarter of 16	Quarter of 28	Quarter of 36

- Lastly, try the problem on the next page.

Mr. White has asked his class to put one quarter of the balls into the hoop.



Teddy

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

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



Whitney



Tommy

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

Who is correct? Can you explain any mistakes made?

See the next page for the answer.

Answer

Whitney is correct because one quarter of 12 is 3.

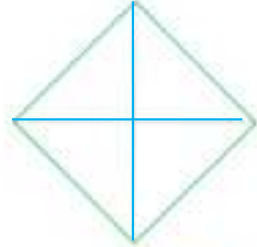
Teddy has misinterpreted **one** quarter to just mean one.

Tommy knows that quarters are linked to fours but hasn't split the balls into four equal groups.

Session 4 and 5

- On the next few pages are 4 problems for your child to work through over the next 2 sessions.
- Read the problem to them and then talk about ways to solve it.
- They can work through using the methods practised this week. They can also use practical resources and can draw pictures to help them or to explain their ideas.
- The answer to each problem can be found on the page after it.

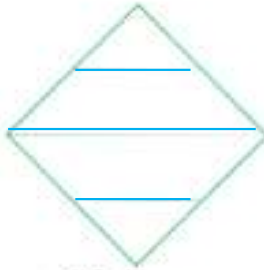
Alex and Jack are talking about quarters.



Alex

My shape shows quarters because it has four equal parts.

My shape shows quarters because it has four parts.



Jack

Are they correct?
Explain your answer.

See the next page for the answer.

Answer

Alex is correct because quarters must be four equal parts.

Jack has split his square into four unequal parts so they are not quarters.

Halving Word Problems

- 1) This morning, Sarah made 8 chocolate cupcakes. Her brother ate half of them for his lunch. How many are left? _____
- 2) A car has 4 tyres. Half of the tyres have a puncture. How many tyres need to be repaired? _____
- 3) 12 children were playing a game of football. Half of them were wearing red shirts. How many of them were wearing red shirts? _____
- 4) Mrs Williams has 2 chocolate bars. She eats half of them. How many chocolate bars does she have left? _____
- 5) There were 10 candles on a cake. Half of them were blown out. How many of them were still alight? _____

Answers

- 1) 4 cupcakes left.
- 2) 2 tyres need to be repaired.
- 3) 6 children were wearing red shirts.
- 4) Mrs Williams has 1 chocolate bar left.
- 5) 5 candles are still alight.

Use the squares to show:

- Less than a quarter shaded.
- Exactly a quarter shaded.
- More than a quarter shaded.

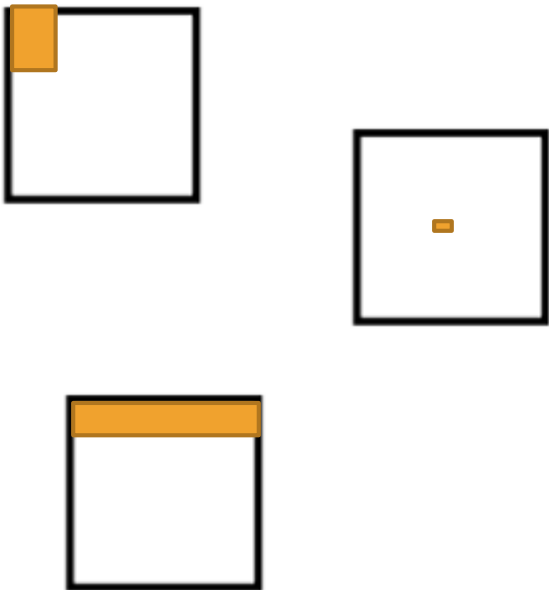


See the next page for the answer.

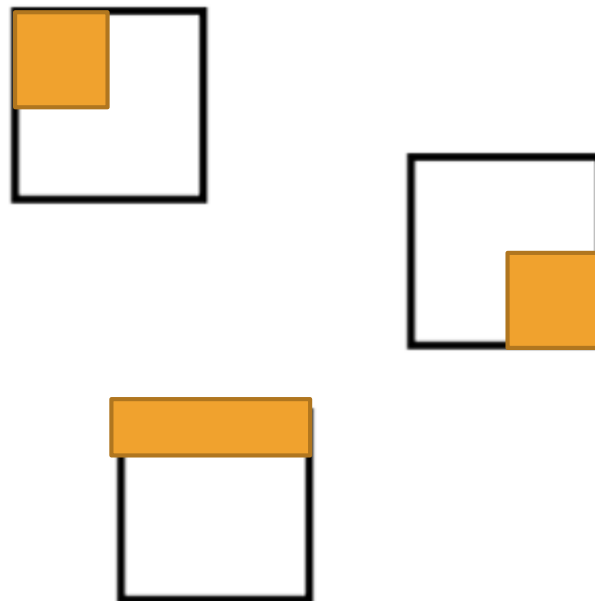
Answer

There are lots of possible answers to this question. Below I have drawn a few answers that you could have.

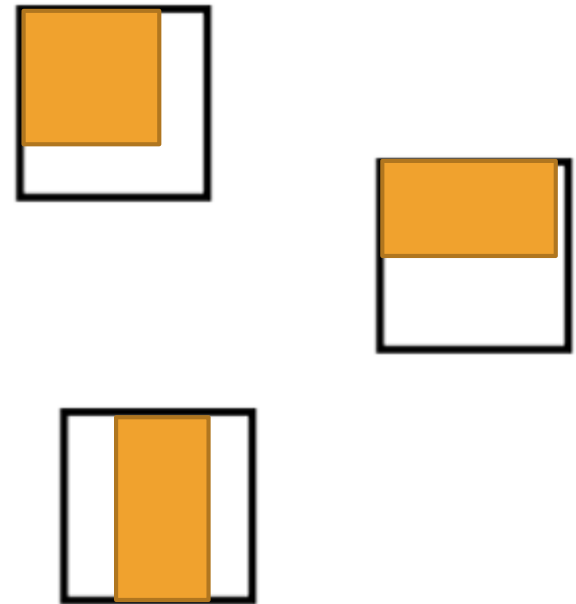
Less than a quarter shaded.




Exactly a quarter shaded.




More than a quarter shaded.



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?

You could use any small objects in the place of cubes. For example, pieces of pasta, buttons, toy cars or pencils.

See the next page for the answer.

Answer

Possible answers:

Any arrangement
of 4 cubes.

Any arrangement
of 8 cubes.

Any arrangement
of 12 cubes.

There are many
different
possibilities which
the children will
find through their
exploration with
the multilink.