Year 1 maths – Summer 1 Week beginning: 18.5.20					
Theme	**Making halves**	**Making halves**	**Making quarters**	**Making quarters**	**Sharing**
Factual fluency (to aid fluency)	Doubles Select doubles and then doubles to 10	Fact family Select + and – then up to 20	Halves Select halves and then halves to 10	Ordering choose level 1 > Ordering > Numbers up to 20	Doggy division
Problem/ activity of the day **Remember, just like in class, you can still show the depth of your knowledge** LINK	**(Lesson 1 resources below)** **MAKING LINKS:** Last week we looked at division and how you can share items into equal groups. **THINK: (support below)** When you are making halves it's just like sharing, all parts have to be equal. Can you help me with this problem? I need to share a square piece of paper into two equal parts. How many different ways can I share it? Cut pieces of paper into squares to solve this problem. Finished? Are all your halves equal? Do you think the answer can be the same for a rectangle? **SEE: (model below)** SEE model below **DO:** Use what you have learnt today to solve the problems below.	**(Lesson 2 resources below)** **MAKING LINKS:** Yesterday we learnt how to halve a shape. **THINK: (support below)** When you are making halves it's just like sharing, all parts have to be equal. Can you help me with this problem? My friend needs to work out which shapes are split in half and which are not. How can I tell if a shape is split in half? Finished? What other shapes can you split in half? **SEE: (model below)** SEE model below. **DO:** Use what you have learnt today to solve the problems below.	**(Lesson 3 resources below)** **MAKING LINKS:** This week we have learnt how to recognise half of a shape. **THINK: (support below)** When you are making quarters it's just like sharing, all parts have to be equal. Can you help me with this problem? My friend made a sandwich and he wants to share it with his friends. How many different ways can they cut it into quarters (four equal parts)? Cut a piece of bread, or paper to solve this problem. Finished? Are all your quarters equal? Do you think the answer will be the same for a rectangle? **SEE: (model below)** SEE model below **DO:** Use what you have learnt today to solve the problems below.	**(Lesson 4 resources below)** **MAKING LINKS** Yesterday we learnt how to cut a shape into quarters. **THINK: (support below)** When you are making quarters it's just like sharing, all parts have to be equal. Can you help me with this problem? My friend needs to work out which shapes are split in quarters and which are not. How can I tell if a shape is split into quarters? Finished? What other shapes can you split into quarters? **SEE: (model below)** SEE model below **DO:** Use what you have learnt today to solve the problems below.	**(Lesson 5 resources below)** **MAKING LINKS:** This week you have learnt about halves and quarters. **THINK: (support below)** Halves is sharing between 2 groups and quarters is sharing between 4 groups. Can you help me with this problem? I have 8 muffins. I need to share them with my family. How many would there be if I shared them between two people, and found one half of the 8 muffins? How many would there be if I shared them between four people, and found one quarter of the 8 muffins? Use objects like pasta, Lego etc. to help you solve this problem. Finished? Explain to someone how you worked it out. **SEE: (model below)** SEE model below **DO:** Use what you have learnt today to solve the problems below.
Methods, tips, clues & checks	Cut out the shapes and fold them along the line they say is half. Check the parts are equal.	See answer sheet below.	Cut out the shapes and fold them along the line they say is quarter. Check the parts are equal.	See answer sheet below.	See answer sheet below.

See below for resources to support you to THINK-SEE-DO

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DAY 1 resources:

THINK:

SEE:

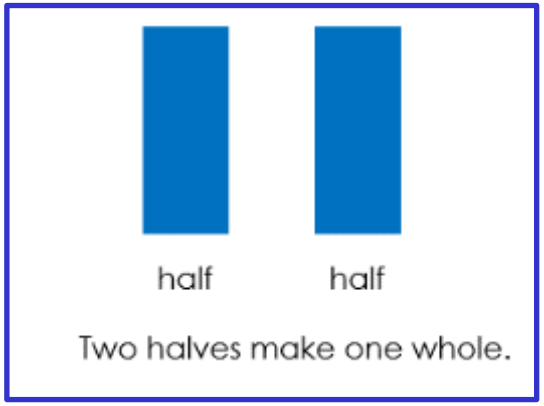
I folded my paper into two equal parts to see if it looked the same on both sides.

I can halve it in 4 different ways.

DO:

1. Makes some shapes out of paper- triangles, rectangles, squares and circles
2. Choose a shape
3. Name the shape
4. Cut the shape in half (into two equal parts)
5. Stick each half into your book

Example:



6. Are there different ways to make halves using the same shape?

Challenge:

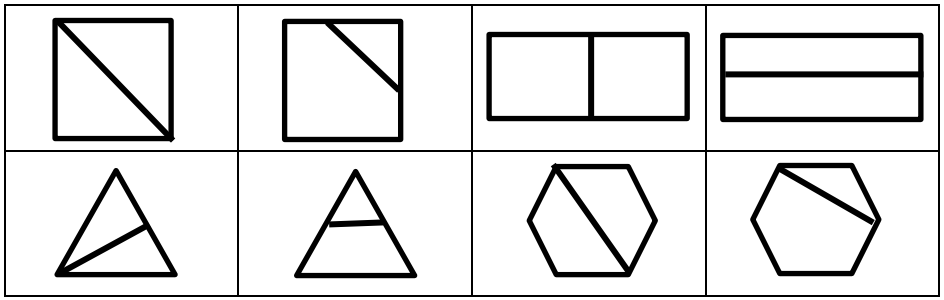
My friend says that whenever they cut a shape in two they make halves. Are they right?

Draw and write to explain.

DAY 2 RESOURCES:

THINK:

a b c d



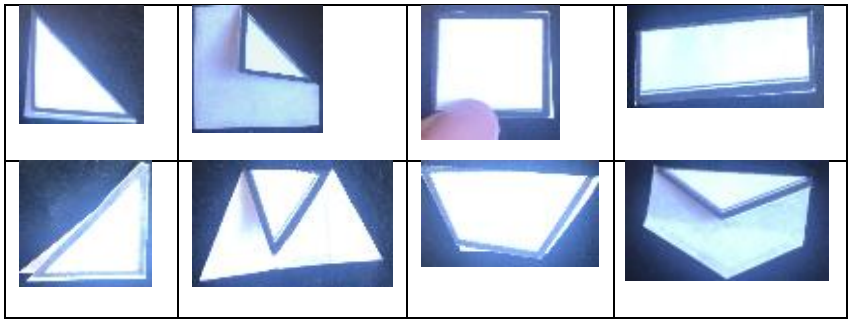
e f g h

SEE:

Sometimes it's hard to see what half should look like.

I cut the shapes up and folded them to check.

a b c d

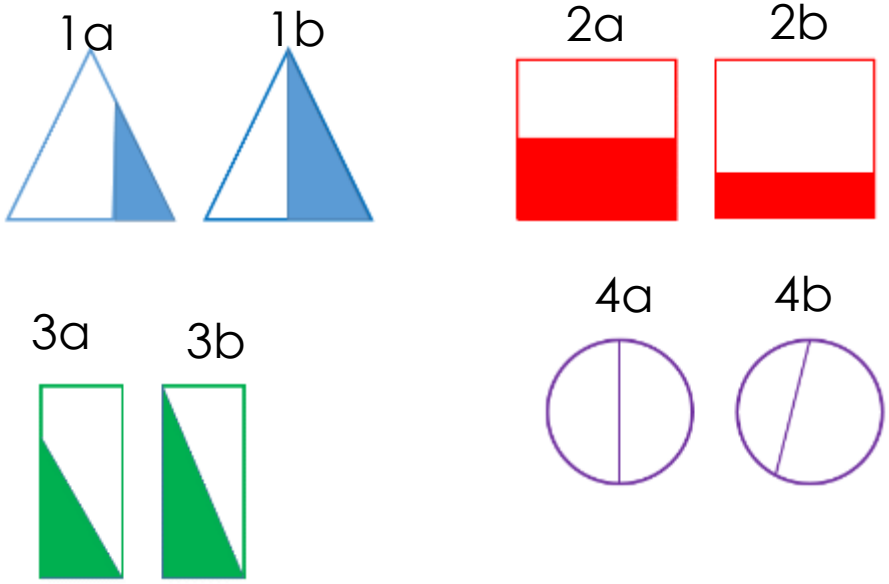


e f g h

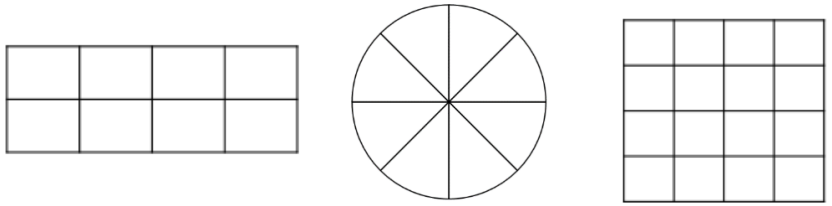
Now I know shapes a, c, d, e and g are all split into equal halves because when they are folded they look the same on both sides. They overlap exactly.

DO:

Which show halves?



Draw these shapes and shade half.



Challenge:

My friend says that these are all half. Are they right?
How can this be?

DAY 3 RESOURCES:

THINK:



SEE:

I started by cutting the sandwiches in half.



I then cut the halves into halves again.

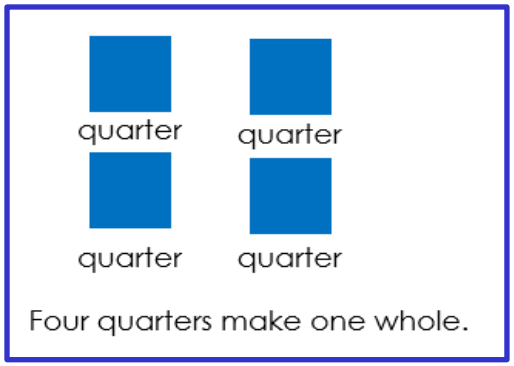


Now they are cut into four equal parts, they are cut into quarters.

DO:

1. Makes some shapes out of paper- triangles, rectangles, squares and circles
2. Choose a shape
3. Name the shape
4. Cut the shape into quarters (four equal parts)
5. Stick each quarter into your book

Example:



6. Where you able to make quarters with each shape? Explain your answer.

Challenge:

Is it true that all shapes can be cut in half can also be cut in quarters?

Explain your answer.

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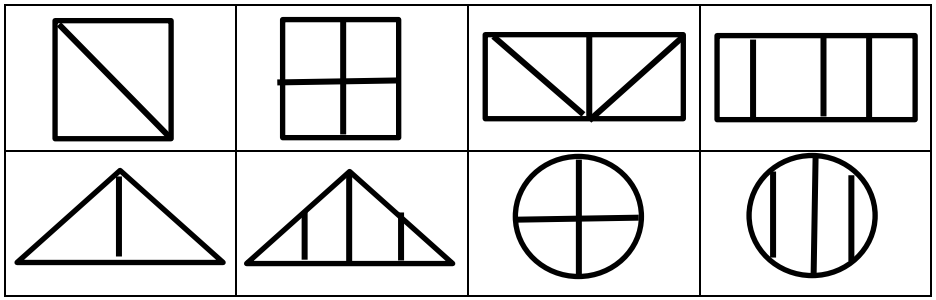
DAY 4 resources:

THINK:

a b c d



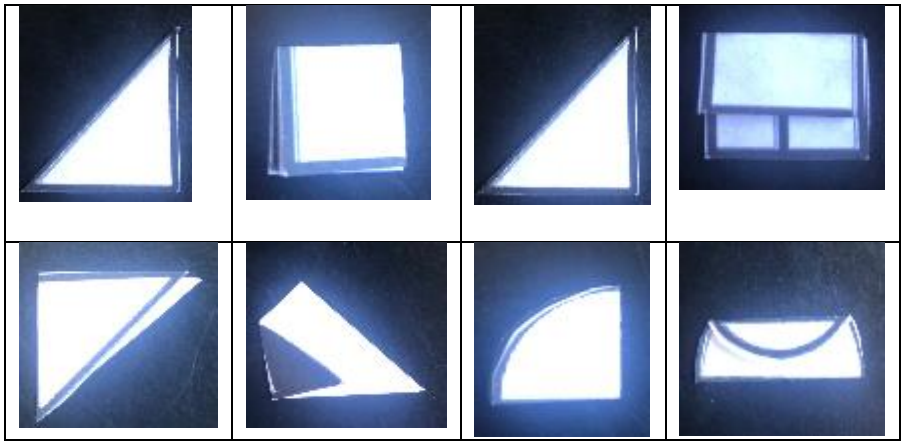
e f g h

SEE:

Sometimes it's hard to see what a quarter should look like.

I cut the shapes up and folded them twice to check.

a b c d



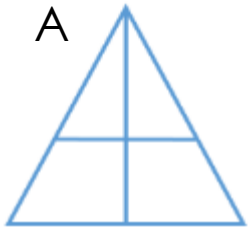
e f g h

Now I know shapes b, c and g are split into equal quarters because when they are folded twice they look the same on both sides. They overlap exactly. The whole shape is split into four equal parts.

DO:

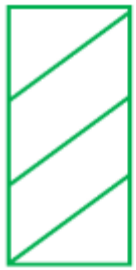
Which show quarters?

A



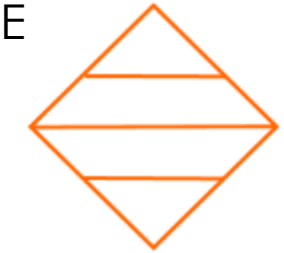
B

C



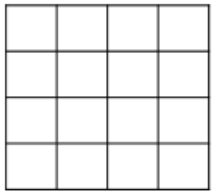
D

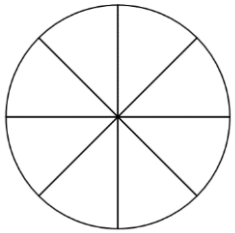
E

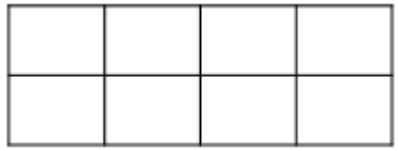


F

Draw these shapes and shade one quarter.







Challenge:

My friend told me that you can share objects into quarters as well as shapes. Is this true? Explain how you know.

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DAY 5 resources:

THINK:

SEE:

I added one muffin into each group at a time.
To find one half of 8 muffins, I shared them into two equal groups.
To find one quarter of 8 muffins, I shared them into four equal groups.

DO:

There are 8 stickers.
Millie gets half of them.
How many does she get?

Millie gets ☐ stickers.

Ben has 14 coloured pens.
He uses half of them in his picture.
How many does he use?

Ben uses ☐ coloured pens.

Andy bakes 8 cakes.
He gives a quarter of them away.
How many cakes does he give away?

Andy gives away ☐ cakes

There are 16 cups.
Annie fills a quarter of them with juice.
How many does she fill with juice?

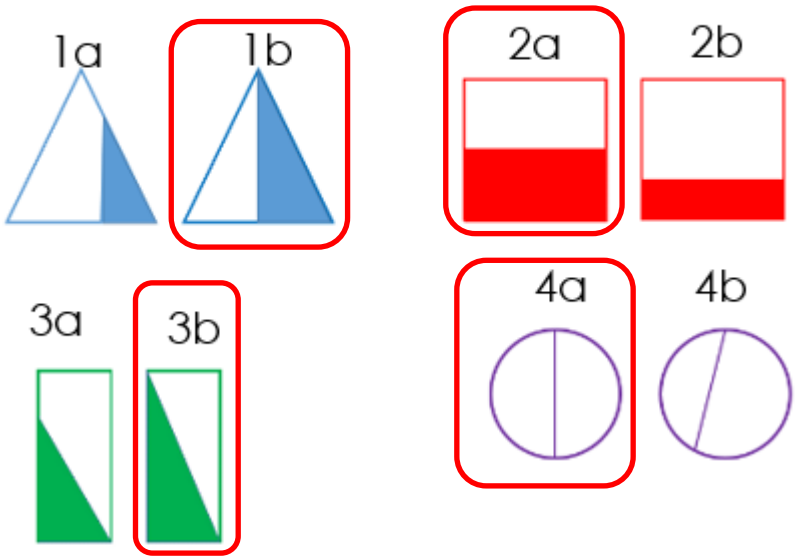
Annie fills ☐ cups with juice

Challenge:
Write your own word problems about halves and quarters for a friend to solve. Show your friend how to solve the problems.

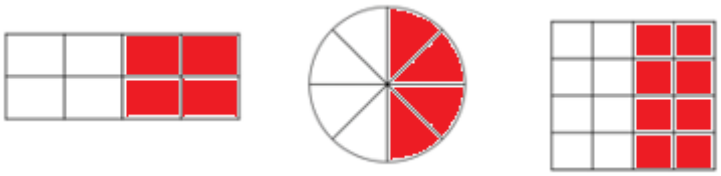
Answers activity 2

DO:

Which show halves?



Draw these shapes and shade half.



Challenge:

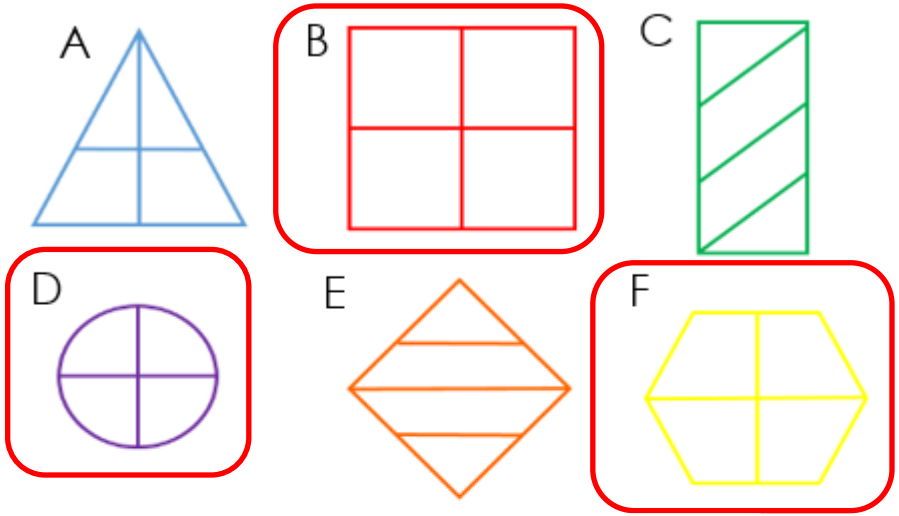
My friend says that these are all half. Are they right? How can this be?

Each object has been shared into two equal pieces, two halves. Halves can be in any direction as long are each half is equal.

Answers Activity 4

DO:

Which show quarters?



Draw these shapes and shade one quarter

Challenge:

My friend told me that you can share objects into quarters as well as shapes. Is this true? Explain how you know.

Objects can be shared into 4 groups. This is sharing into quarters. For instance one quarter of 8 is 2.

Answers activity 5

DO:

There are 8 stickers. Millie gets half of them. How many does she get?  Millie gets [4] stickers.	Ben has 14 coloured pens. He uses half of them in his picture. How many does he use?  Ben uses [7] coloured pens.
Andy bakes 8 cakes. He gives a quarter of them away. How many cakes does he give away?  Andy gives away [2] cakes	There are 16 cups. Annie fills a quarter of them with juice. How many does she fill with juice?  Annie fills [4] cups with juice
Challenge: Write your own word problems about halves and quarter for a friend to solve. Show your friend how to solve the problems.	