



Year 1 Maths Home Learning | Summer Term



Week beginning 6th July

Maths

<https://whiterosemaths.com/homelearning/year-1/>
<https://www.bbc.co.uk/bitesize/tags/zjpqqp3/year-1-and-p2-lessons/1>

After watching the videos and the online practice activities, have a go at these activities. Depending on your confidence choose Mild, Medium or Spicy.

Remember, these activities are to work from, not on. There is no expectation to complete all of the work or to print worksheets off – children can work on paper if they want to write it down. It is also fine for your child to just say the answer or for them to simply point to it! ☺



Extensions – You may wish to deepen your learning by looking at the worksheets provided by the BBC too.

Additional lessons –

<https://classroom.thenational.academy/subjects-by-year/year-1/subjects/maths>

We have also included an arithmetic quiz in the home learning folder – week 11. The answers are also included so it maybe that your child has-a-go on one day and then repeats the quiz in an attempt to beat the first score on another day.

This website is one the children really enjoy using at school to support with arithmetic
<https://www.topmarks.co.uk/maths-games/hit-the-button>

It is really important that children develop their ability to instantly recall maths facts alongside their understanding of mathematical concepts.

Monday - Find half of objects

<https://whiterosemaths.com/homelearning/year-1/>
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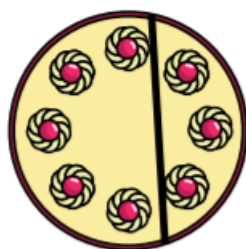
Children explore finding a half for the first time using shapes and sets of objects. They will use the vocabulary 'half' and 'whole'. Children will not at this stage use the fractional notation of $\frac{1}{2}$. It is important that they know that a half means 'one of two equal parts' and are able to count them.

Mathematical Talk

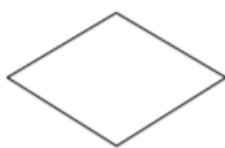
How many parts have I split my object into?
How can you show a half of something?
How do you know if a shape is split into halves?
How many halves make a whole?
Can we count them?
How do you know if an object or shape has not been split in half?
Is there more than one way to show half of a shape or object?
Is this the same for all shapes?

Mild

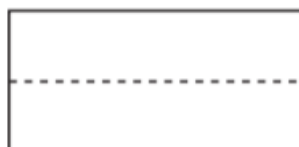
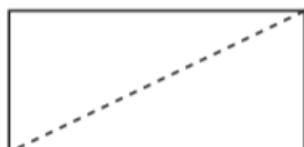
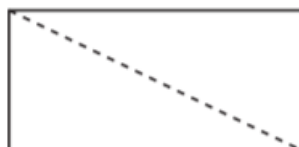
- 1 Tick the cake that is cut in half.

☐☐

- 2 Draw a line to split each shape in half.

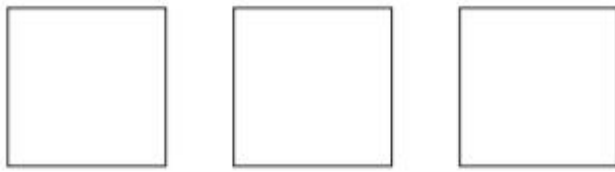


- 3 Colour half of each rectangle.

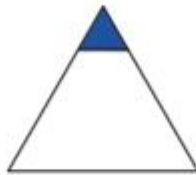


Medium

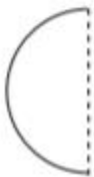
1. Show one half in three different ways.



2. Tick the shapes that show one half.

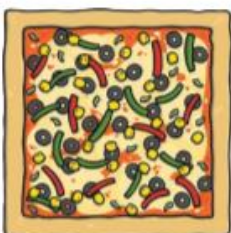


3. Match the halves to make a whole.



Spicy

1.



There are only 2 ways to cut this pizza in half.



Do you agree? Can you find a way to prove it?

2. Use paper shapes to help you.



How many ways can you find to halve the shapes?



Put the number in the box.

Which shape has the most ways?

Now try some different shapes.
What do you notice?

Which shape do you think can be halved in the most ways?

Can you explain why?

Can you prove it?

Can you order these from the fewest to the most options?

3.

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



Eva



Jack thinks he can find three more ways.



Jack

Find Jack's three examples.

Tuesday - Find half of amounts

<https://whiterosemaths.com/homelearning/year-1/>
<https://www.bbc.co.uk/bitesize/tags/zjpqqp3/year-1-and-p2-lessons/1>

Children use their understanding of finding half of an object or shape and apply this to finding half of a small quantity. It is important that children find the total amount and can then show how this number can be shared equally into two. The use of concrete manipulatives such as counters can help children to find a half.

Mathematical Talk

How can we find half of an amount?

How many groups do we need to share our beads between?

How can you check that you have found half?

How many equal parts should you have when you have split the objects in half?

Mild

- 1 a) Circle half of the pencils.



- b) Complete the sentence.

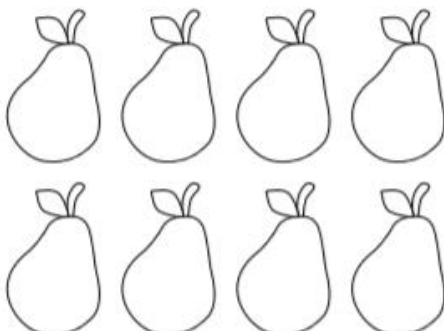
Half of 6 is

- 2 Colour half of each group.

a)



b)



Medium

1. How many counters are there in each group?

Find half of each group.

a)



Half of

is

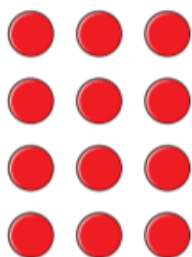
b)



Half of

is

c)



is half of

2. Each set of rings have been split into two groups.

Which sets of rings have been halved?

How will you know?

What clues are you looking for?

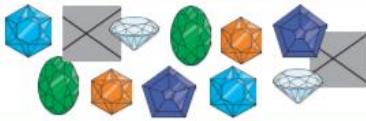
Tick the sets of rings that have been halved.



Spicy

1a. Use counters to help you.

True or false? We have 10 gems.
If we halve them, I get 7 and you get 3.



Has the treasure been halved? How do you know?
How many are in the whole group?
How many would be in each half?
Show me how you would have done it.

Do you think this is true or false?
Can you tell me why?
Will the groups show half?
What should half of ten look like?

b. I have 8 gold coins.
I put half in each box.



How many are in each box?

How many coins are there altogether?
What can you do to find half?
How many are in each box?

c. This is half of my treasure.



How many do I have in total?

How many necklaces can you see?
What can we do to work out the whole group?

2. Mo is finding halves.

It is hard to find half
of an odd number.



Do you agree with Mo?
Explain your answer.

Wednesday- Find quarter of objects

<https://whiterosemaths.com/homelearning/year-1/>
<https://www.bbc.co.uk/bitesize/tags/zjpqgp3/year-1-and-p2-lessons/1>

Children explore quarters for the first time. They will develop their understanding of equal parts and non-equal parts and relate this to a shape or object being split up into four equal parts. Children will use the words quarters and parts at this stage but will not use the fractional notation of $\frac{1}{4}$.

Mathematical Talk

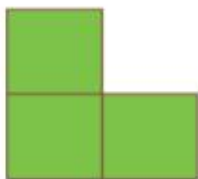
How many parts does my whole have?
Are my parts equal or not equal?
How many equal parts can we see/count?

Can we make a quarter in a different way?

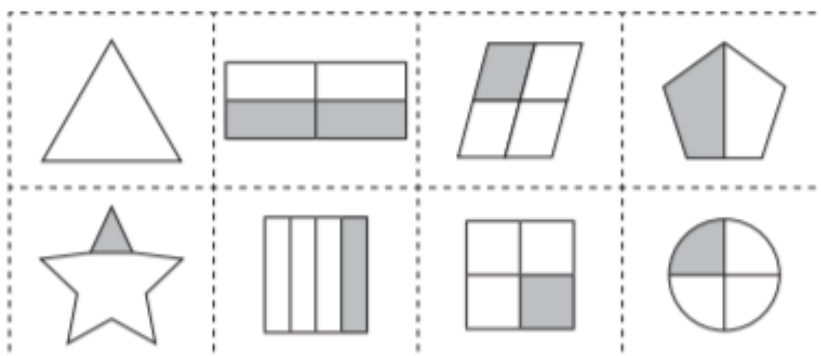
Which shapes show equal parts?
Which shapes show four equal parts?
Which shapes show quarters?

Mild

1. Draw a line to match the quarter to the rest of the whole shape.

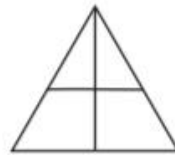
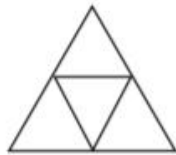
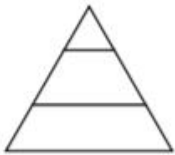
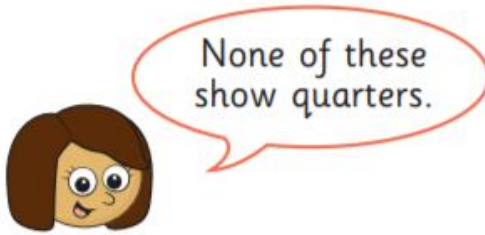


2. Tick all of the shapes that represent a quarter shaded.



Medium

1. Kim wants to show a quarter.



Do you agree with Kim? _____

Talk about your answer.

2. Show a quarter in four different ways.



Spicy

1. 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.

2. Use the squares to show:

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



Thursday- Find quarters of amounts

<https://whiterosemaths.com/homelearning/year-1/>

<https://www.bbc.co.uk/bitesize/tags/zjpqqp3/year-1-and-p2-lessons/1>

Children find a quarter of a small quantity through equal sharing. It is important they can show the groups clearly by drawing around quantities or by physically sharing into something. Children will use the word quarters and parts at this stage but will not use the fractional notation of $\frac{1}{4}$. They also begin to describe capacity using the terminology 'a quarter full'.

Mathematical Talk

How many sweets do I have? How can I share them equally into four groups? What is one quarter worth?

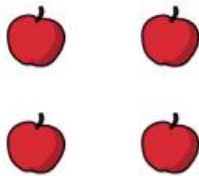
Are my containers the same or different?
Can you show me a quarter full in each container.

How can I quarter this amount?
If I have 2, and it is a quarter, what will the whole look like?
What will the whole be worth?

Mild

I Circle a quarter of each group.

a)



A quarter of 4 is

b)



A quarter of 12 is

c)

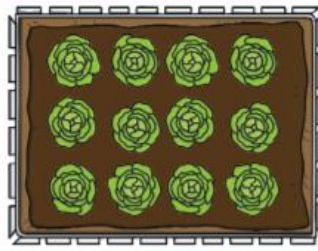


A quarter of 20 is

Medium

1a.

I need a quarter of the cabbages.

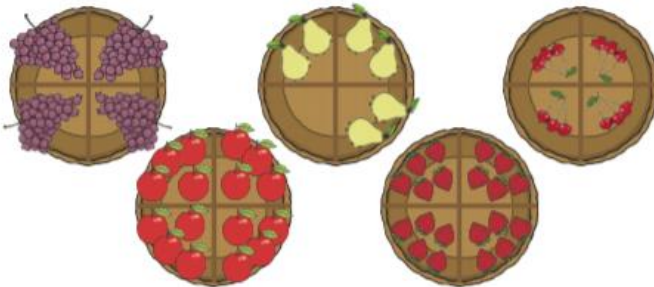


The whole is .

A quarter of is .

How many cabbages are in the whole group?
What do you need to do to find a quarter?
How many equal groups do you need to make?
How can you do this?
Are the groups equal?
Which numbers are missing from the stem sentence?

b. Tick the baskets of fruit that have been quartered.



Each basket of fruit has been split into four groups.
Which baskets of fruit have been quartered?
How do you know?
What clues are you looking for?

2. A quarter is 6



What is the whole?

The whole is

3.

Use counters to help you.



I have 16 apples. I give each horse a quarter.



How many do they each get?

You can also use any objects that you can find around the house to help you.

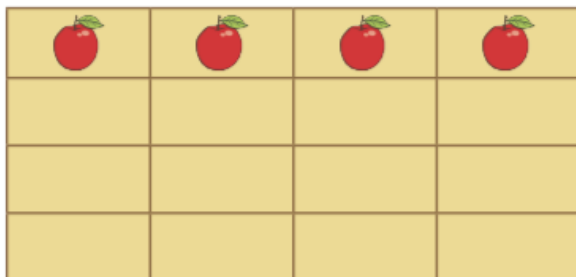
How many apples are there altogether?
What can you do to find a quarter?
How many apples does each horse get?
A quarter of ____ is ____.

Spicy

1.



I filled a quarter of the farm shop shelves.



How many more ways can you find to show a quarter?

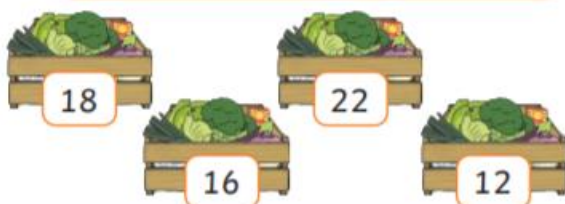
How many shelves are there in the farm shop?
How many apples are there?
This shows us that quarter of sixteen is...
How many different ways can you find to show a quarter?
How do you know you have found all the different ways?
How do you know you haven't repeated any ideas?
What can you do to keep track of your ideas?
Can you draw your ideas?

Use the template on the next page to help you solve this question.

2.



Which crates of vegetables can I quarter?



Which other numbers can be quartered?

Make a group of counters to match the number on a crate.
Can you quarter them without having any left over?
Try again with another number.
What do you notice?
Can you spot a number pattern?
Can you explain what you have discovered?
Test your idea with some other numbers.

3.

This is a quarter of my herd.



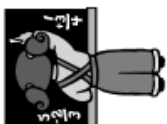
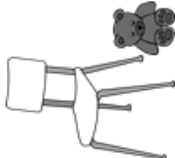
How many cows do I have in my whole herd?
Show how you know.

What is a herd?
How many cows can you see?
If there are five cows in one quarter,
what can we do to find the total of the whole group?
_____ is a quarter so _____ is the whole.

Friday- Challenge of the week

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Friday is challenge day on BBC Bitesize Daily. Alongside this, today we would like you to have a go at completing the following key skills questions. How much can you remember from your previous learning at both school and your home learning?

Number and Place Value		Fractions and Measure		Measure and Geometry	
1:1	1. What is the missing number? 22 21 20 18	1:11	11. Colour in $\frac{1}{2}$ of the counters. 	1:16	16. I finish school in the: a. morning b. afternoon c. evening. 
1:2	2. What is the missing number? 2 4 6 10				
1:3	3. What number is one more than 59?	1:12	12. What fraction of this shape has been coloured in? 	1:17	17. What month comes after April? a. February b. May c. March
1:4	4. What number is labelled? 				
1:5	5. Write this number in words: 13	1:13	13. Which tower is double the height of tower Y? 	1:18	18. What time does this clock show? 
1:6	6. What symbol is missing? 5 3 = 2				
1:7	7. What is the missing number? 9 + = 20	1:14	14. How long is the matchstick? 	1:19	19. What is this shape? a. cuboid b. pyramid c. sphere 
1:8	8. 16 - 7 =				
1:9	9. Tom has 10 apples. Kim has 5 apples. How many apples altogether?	1:15	15. How much altogether? 	1:20	20. The teddy bear is: a. on the chair. b. under the chair. c. next to the chair. 
1:10	10. 9 pens are shared by 3 children. How many pens do they get each?				