Year 1 home learning

Maths, Summer 1, week 5

Information for parents

This week we are looking at quartering shapes and numbers. The children will look at how to quarter shapes first and then numbers and then use these skills to solve some problems. Each lesson will start with a flashback 4 slide to recap prior learning.

- Each week there is **only 1 maths task** we would like to see submitted through google classroom, this week it is an activity from lesson 3 (it is indicated with a camera picture), all other tasks can either be done on the slides or on orange books, but please don't feel you have to show us unless you want to.
- Resources needed for the week are pencil, paper and some counters/toys to help just like the last couple of weeks.

Lesson 1- Introduction to quarters found in real life and the symbol we use to represent one quarter. There is also a short video to help explain. Lesson ends with an optional task to draw around objects at home to create 2D shapes and test to see if we can cold and cut them into quarters. (Video demonstration on slide)

Lesson 2- We start off with a range of 2D shapes and need to decide whether or not they have been cut into quarters. Are they 4 equal parts? We then move on to optional challenges of drawing lines on shapes to cut them into quarters, in to 4 equal parts and then finally a problem solving challenge.

Lesson 3- In lesson 3 we are moving on to quartering numbers, there are two animated slides to demonstrate how we can share counters evenly to help represent a quarter. Next there is the activity and Challenge where you will see the camera icon, this is the piece of work that we would like returned this week!

Lesson 4-Children to solve problems using their knowledge of quartering shapes and numbers. Slides with examples and Top Tips are included.

Mental maths children to choose a column of arithmetic questions to keep up their mental maths skills.

Lesson 1

Introduction to quarters

Flashback 4

1) Amir and Ron share the strawberries equally.
How many will they each have?

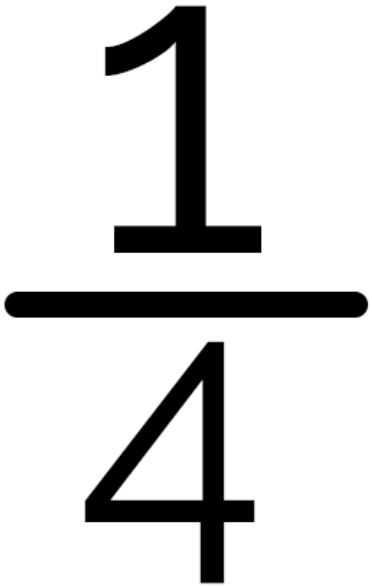
2) Double 6 is ___

3) There are ___ groups of ___ flowers.

4) 5 + 8 =

White Rose Maths

Do you know what this symbol means? Have you seen it before?

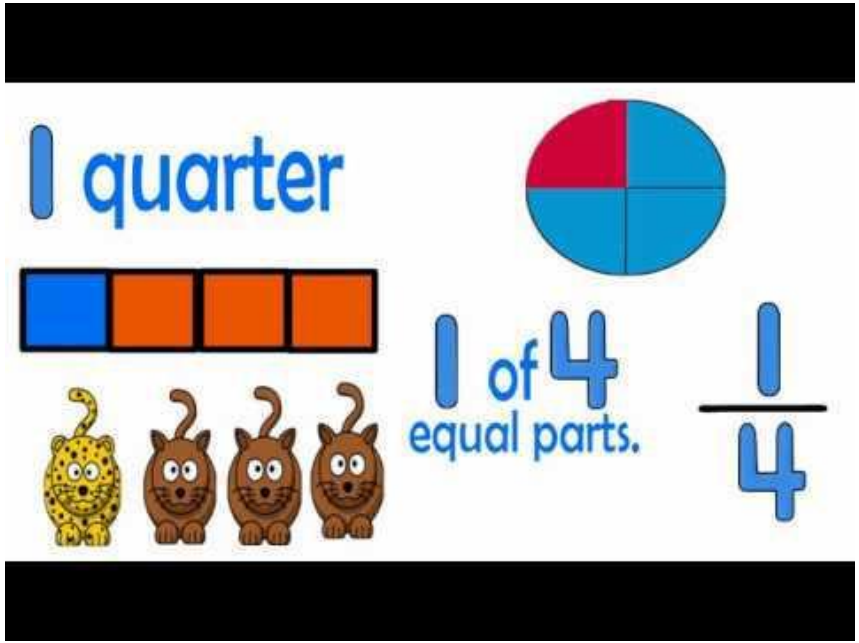


This shows how many parts we have

This shows the total number

Last week we looked at halving which gave us 2 equal parts. This week we are looking at quarters. When we quarter something we end up with 4 equal parts!

Watch this short video to find out more



We know that this pizza is cut in half because there are 2 equal parts. Let's see what happens if we cut it in half again.

How many equal parts do you think there will be?

twinkl.co.uk

Now the pizza has been cut in to quarters.

We know this because there are 4 equal parts!

twinkl.co.uk

This week Mr Wood is going to draw another 2D shape, but this time he is going to quarter it.

Can you draw any other 2D shapes to quarter?

This week Mrs Moon tried cutting some of her food into quarters. Has she made any good mistakes?

Maybe you could try cutting food in to quarters next time you eat! Remember, there need to be 4 equal parts!

Lesson 2

Quartering shapes

Flashback 4

Year 1 | Week 4 | Day 2

1) Dora, Alex and Annie share the cookies equally.
How many will they each have?

2) Double 5 is ____

3) There are 3 groups of 10 cakes.
How many cakes altogether?

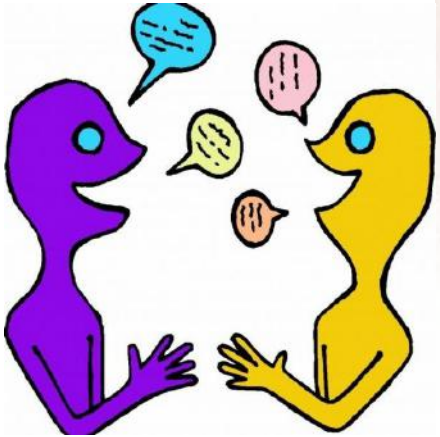
4) 1 less than 18 is ____

White Rose Maths

Mrs Moon was trying to cut this pie into quarters to share with her family.

Has she cut it into quarters or has she made a good mistake?

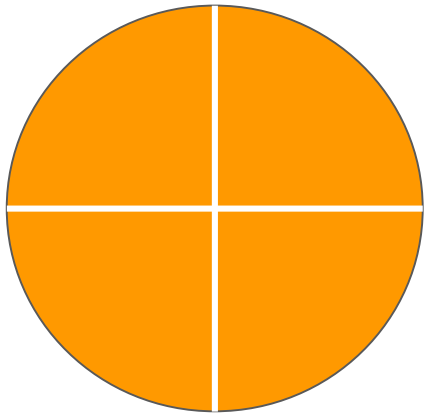
Tell someone at home what you think and then go to the next slide to find out more.



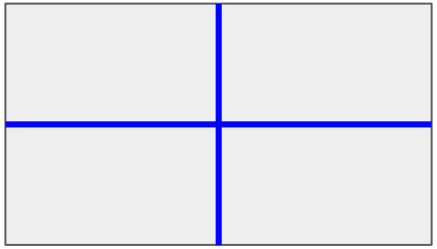
Mrs Moon did cut her pie into 4 parts, but it is not in quarters because they are not 4 EQUAL parts!

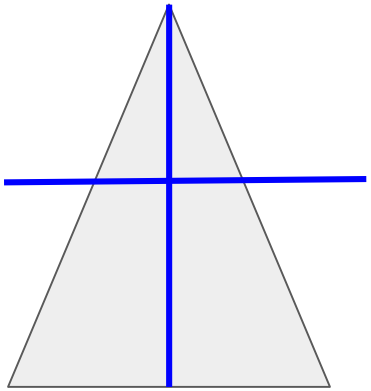
To cut a pie into quarters we need to cut in half and then half again.

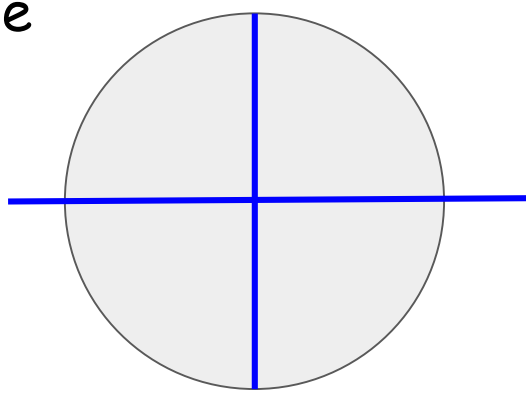
This pie has been cut in quarters so all the pieces are the same.

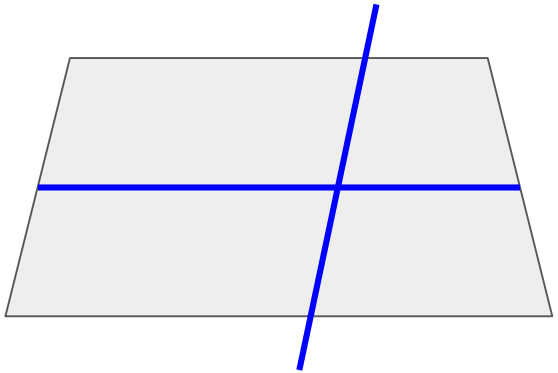


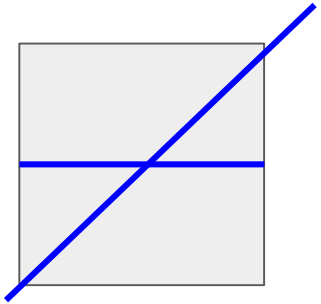
Which of these shapes have been cut into quarters? Remember, if we cut something into quarters, there are 4 equal parts!

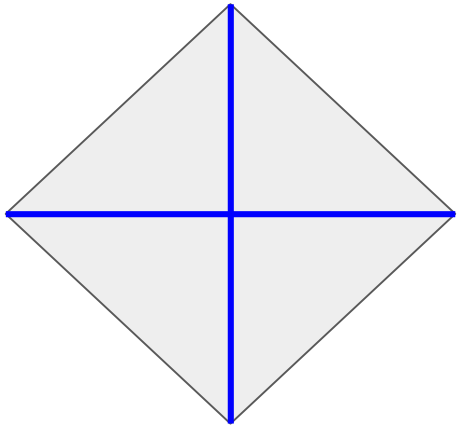








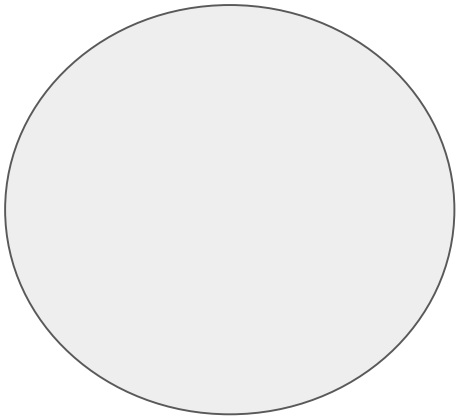


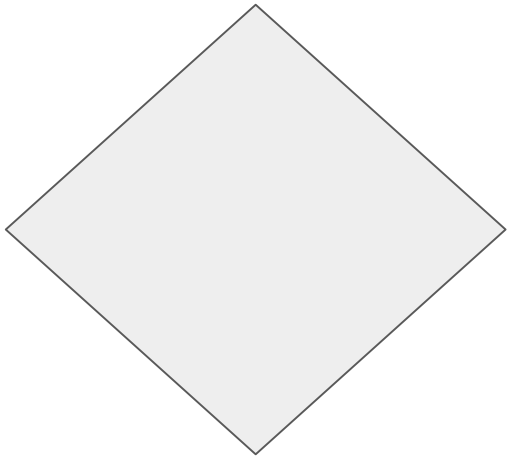


Challenge

Can you draw lines over these shapes to cut them into quarters? Remember quarters are 4 equal parts.

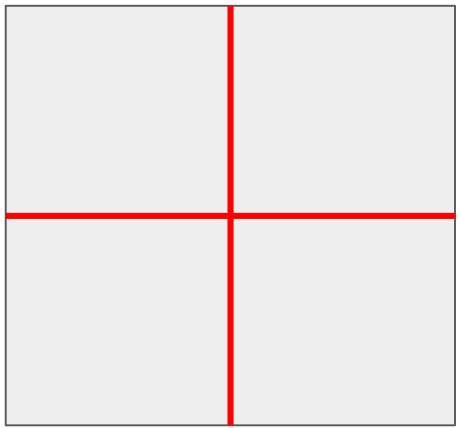
Top Tip: It might be easiest to draw a line to cut them in half first!

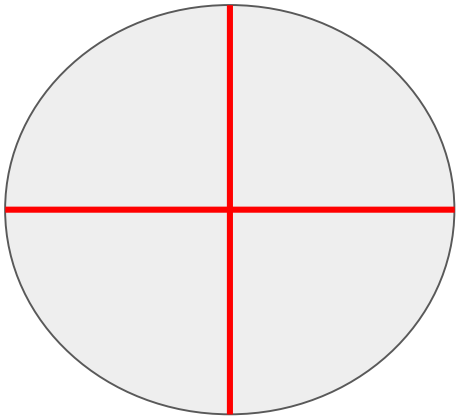


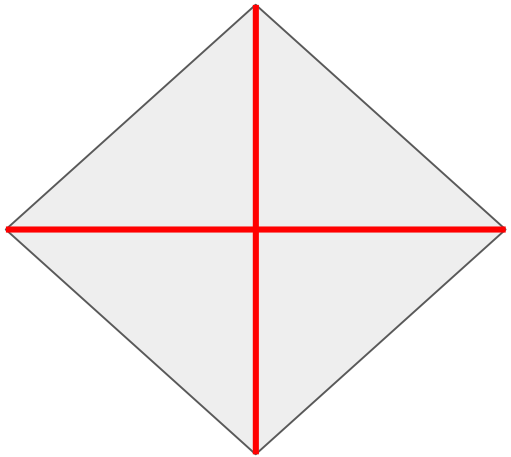


Challenge answers

Here are examples of how to cut these shapes into quarters. Just like halving there is sometimes more than one way to cut a shape into quarters. Did you find any different ways?

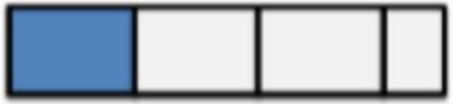


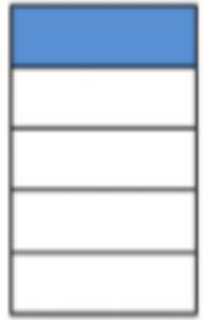




Super Challenge

Tick the shapes that show quarters.





Top Tip - remember that there must be 4 parts and all the parts must be equal!

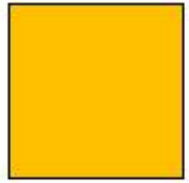
Lesson 3

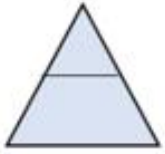
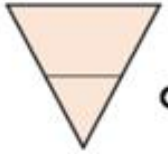
Quartering numbers

Flashback 4

Year 1 | Week 4 | Day 3

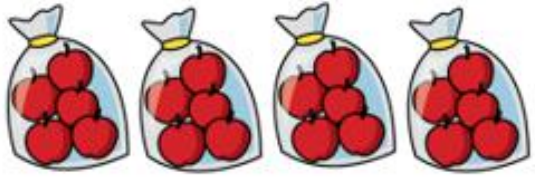
1) Which shape has been split in half?



a  b  c  d 

2) Double 4 is ____ 

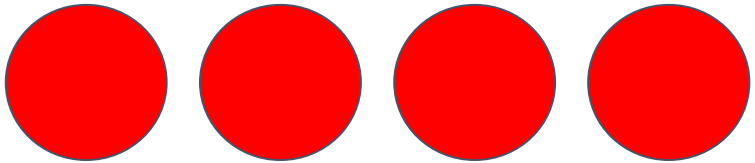
3) How many apples are there?



4) 2 more than 15 is ____

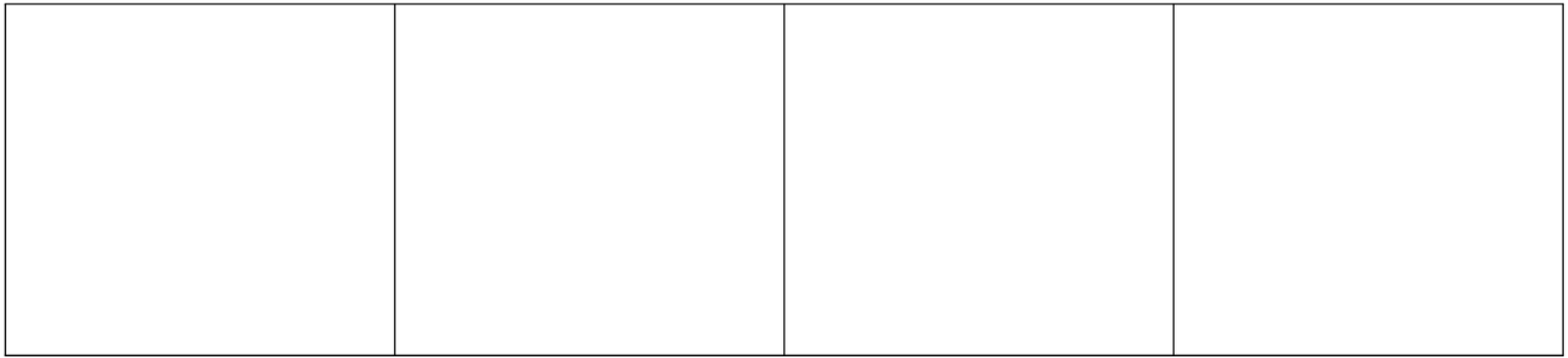
White Rose Maths

We have quartered shapes so far, now let's look at quartering numbers



Look at the next slide to see how we can use these counters to find out one quarter of 4

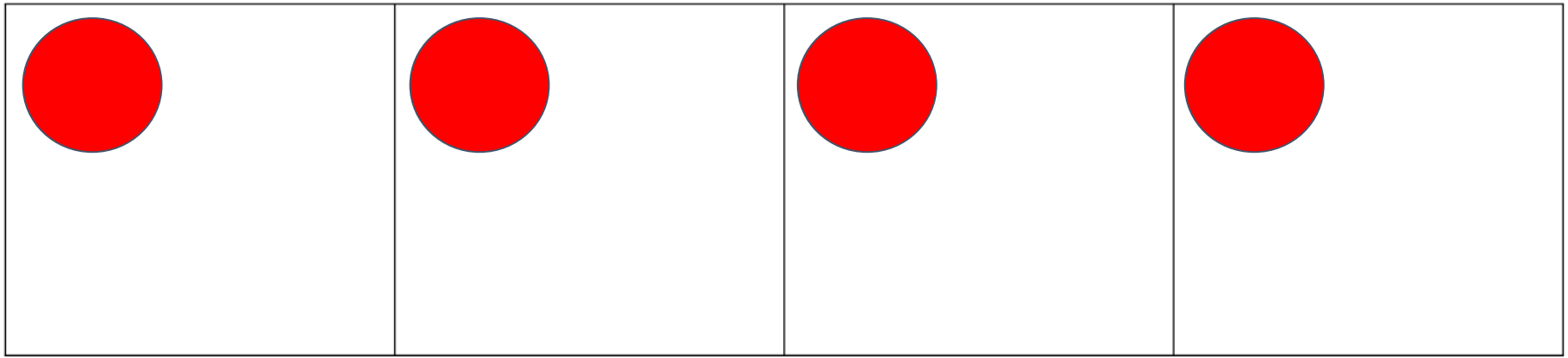
A quarter of 4 is _____.



Notice that I started with 4 counters because that is our whole number.

Then I shared the counters equally, one each, one at a time. A quarter is one part out of 4.

A quarter of 4 is 1.



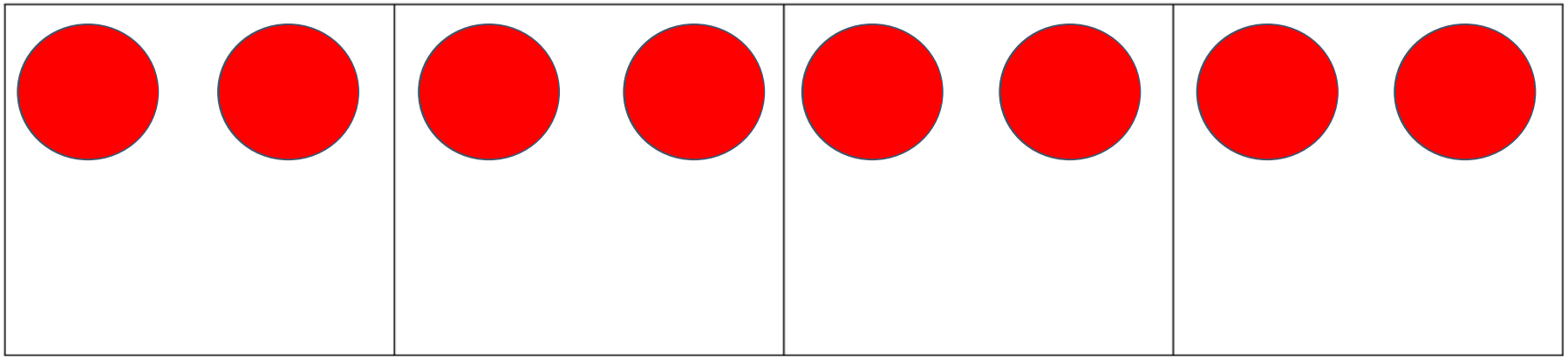
Let's look at one more example together and then you can try some on your own!

*Click to see the animations

8 is our whole number so I have shared 8 counters equally and there are 2 counters in each box.

I know that one quarter of 8 is 2.

A quarter of 8 is ___2___.



Activity

Remember to draw the counters in the boxes to help you.

Count carefully

Share the counters equally, one each and one at a time!

There are more challenges on the next slides.

Good luck!

A quarter of 12 is _____.

A quarter of 16 is _____.

Challenge

A quarter of 20 is _____.

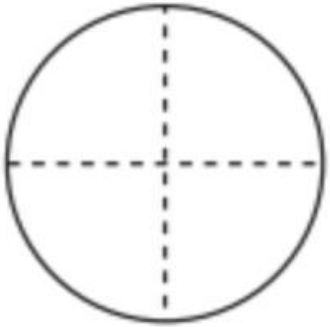
A quarter of 24 is _____.

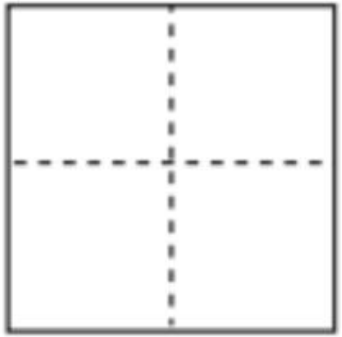
Lesson 4

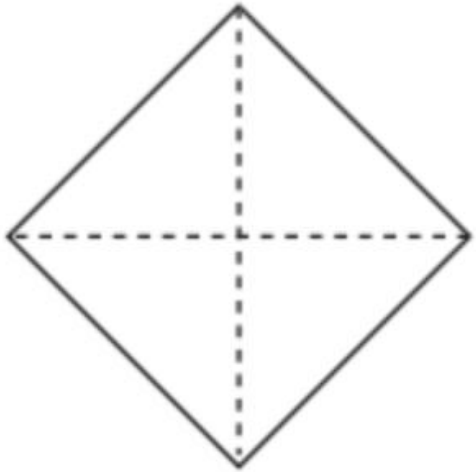
Quartering challenges/problem solving

On these next slides you will find some more fun optional challenges

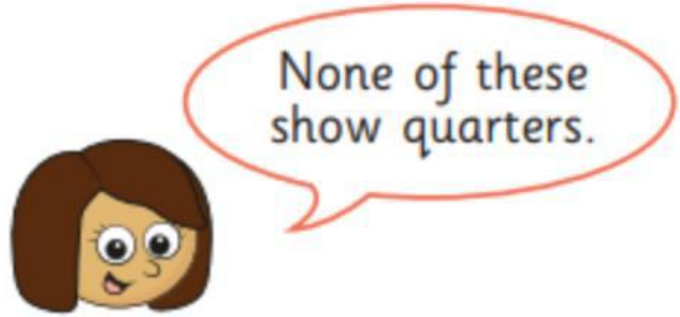
Colour a quarter of each shape.

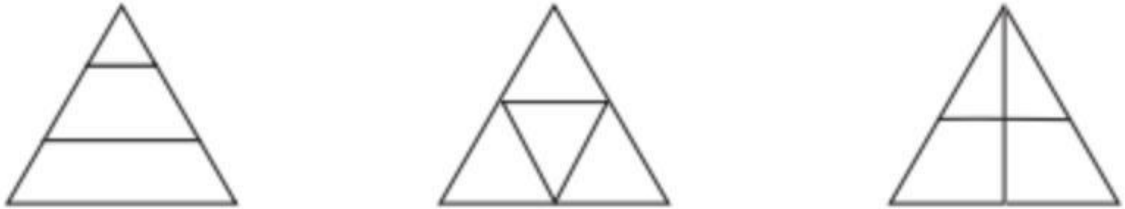






Kim wants to show a quarter.



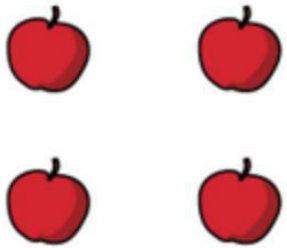


Do you agree with Kim? _____

Talk about your answer.

Circle a quarter of each group.

a)



A quarter of 4 is ☐

b)

A quarter of 12 is ☐

c)

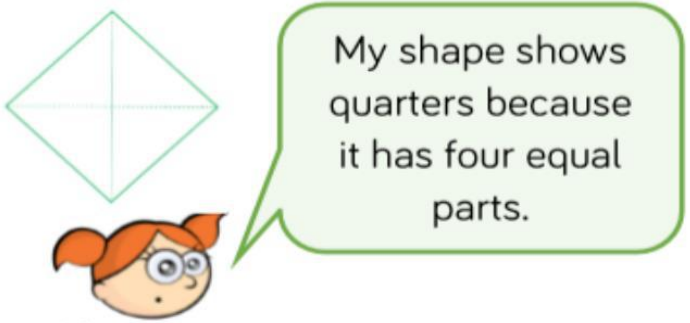
A quarter of 20 is ☐

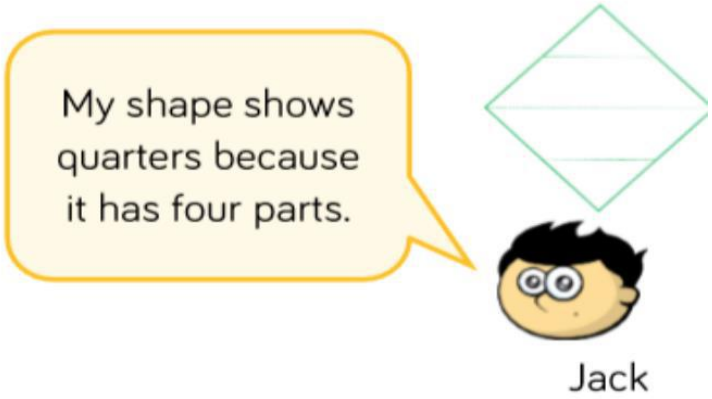
A quarter is 6

What is the whole?

The whole is

Alex and Jack are talking about quarters.





Are they correct?
Explain your answer.

Look at these carefully and give reasons for your answer.

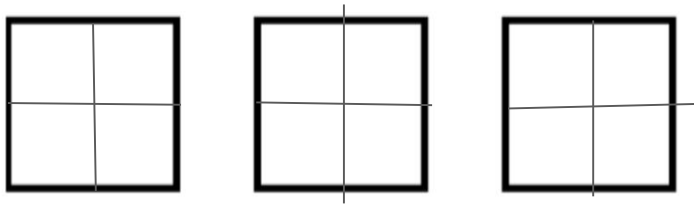
Do they both have 4 parts?

Are those 4 parts all equal?

Use the squares to show:

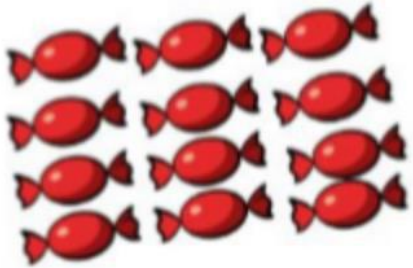
- Less than a quarter shaded.
- Exactly a quarter shaded.
- More than a quarter shaded.

Top Tip: try splitting your squares in to quarters first and then you can shade in.



Share each quantity into four equal groups.

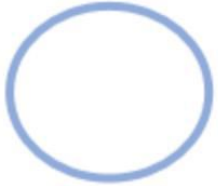
There are ___ cakes.
There is ___ cake in each quarter.
A quarter of ___ is ___



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 ___

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

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

Tommy

Who is correct? Can you explain any mistakes made?

Use your learning from the last couple of weeks to help you.

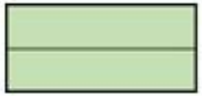
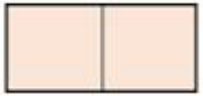
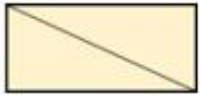
You might need to do some grouping first to help you find out how much a quarter would be.

Remember to explain your answer.

Flashback 4

Year 1 | Week 4 | Day 4

1) Which shape has not been split in half?

a  b  c  d 

2) I plant 2 flowers in each pot.
How many pots can I fill?

3) Draw 3 plates. Draw 2 cookies on each plate.

4) 2 less than 15 is ___

White Rose Maths

Lesson 5

Mental Maths

Flashback 4

1) Mo gives half of the sweets to Jack.
How many does he have left?

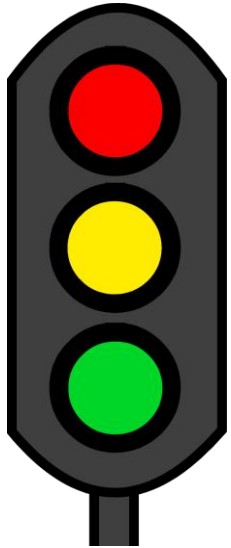
2) The children get into teams of 3.
How many teams will there be?

3) Draw 2 pots. Draw 5 pencils in each pot.

4) Find 3 more than 6

White Rose Maths

Mental Maths practice



Have a go at these addition and subtraction problems. Remember the different strategies we use at school (counting on, counting back, number bonds and other fast facts…) Don't forget to look carefully at + or -

Choose which colour challenge you feel ready for!

5 + 5 =

8 - 4 =

7 + 3 =

9 + 2 =

10 - 9 =

6 + 5 =

12 - 6 =

10 + 10 =

8 + 8 =

14 - 7 =

18 + 8 =

25 - 15 =

16 + 9 =

40 - 10 =

20 + 20 =

28 + 12 =

37 - 16 =

50 - 25 =

15 + 15 =

47 - 27 =

23 + 14 =