

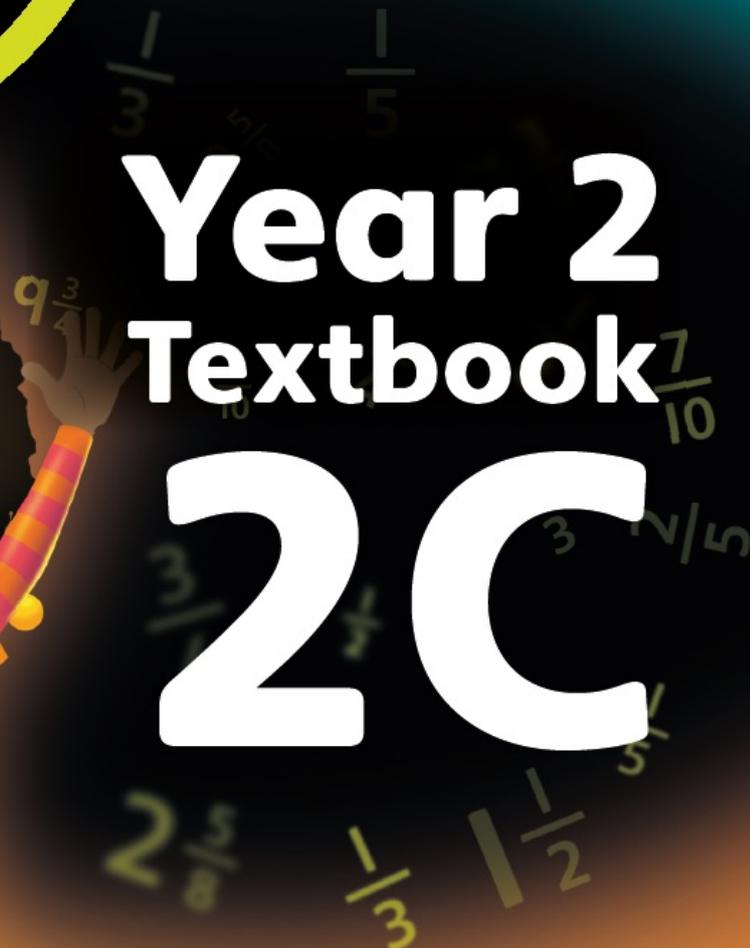
White Rose
MATHS

White Rose Maths Edition

**POWER
MATHS**

**Year 2
Textbook**

2C



Pearson

Series Editor: Tony Staneff



Year 2 Textbook 2C

Series Editor: Tony Staneff



White Rose Maths Edition



helpful



Sparks

brave



Astrid

curious



Ash

determined



Dexter

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This shows us what page to turn to.



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Are you ready for the next part of our maths journey?



How to use this book



Do you remember how to use Power Maths?

These pages help us get ready for a new unit.

Unit 10 Fractions

In this unit we will ...

- Learn about the whole and equal parts
- Recognise and find a half
- Recognise and find a quarter
- Learn about unit and non-unit fractions
- Learn about equivalent halves and quarters

What is half of 6? You can use counters to help.

We will need some maths words. Some are new. Which words do you remember?

half ($\frac{1}{2}$) quarter ($\frac{1}{4}$) third ($\frac{1}{3}$) three quarters ($\frac{3}{4}$)
whole equal parts equivalent
denominator numerator
non-unit fraction unit fraction

Which of these is the odd one out? Why?

Discover

Lessons start with Discover.

Have fun exploring new maths problems.

Unit 10 Fractions, Lesson 1

Introducing parts and wholes

Discover

There are 7 continents

North America Europe Asia
South America Africa Australia
Antarctica

a) Complete the sentences.
The _____ is the whole.
The _____ are the parts.

b) How many parts are there?

world
continents

Share

Next, we share what we found out.

Did we all solve the problems the same way?

Share

a) The world is the whole. The continents are the parts.

The world is the whole. Europe is a part.

The world is the whole and Africa is a part.

I made lots of sentences using the words 'whole' and 'part'.

b) There are 7 continents, so there are 7 parts.

I wondered if the parts were equal.

Think together

Then we have a go at some more problems together.

We will try a challenge too!

This tells you which page to go to in your Practice Book.

Think together

1. Complete the sentences.
Here is the United Kingdom. There are 4 countries in the United Kingdom.

a) The _____ is the whole.
b) _____ is a part.

I think there is more than one way to complete this.

2. Here is an elephant.
Complete the sentences in different ways.
Use the words in the box.

elephant
trunk
ear
tail
tusk
eye

a) The _____ is the whole.
b) The _____ is a part.

Challenge

3. Use the words 'whole' and 'part' to complete these sentences.

a) The duck is the _____.
The beak is a _____.
b) The sail is a _____.
The boat is the _____.
c) The pizza is the _____.
The cheese is a _____.



At the end of a unit we will show how much we can do!

End of unit check

Your teacher will ask you these questions.

1. Which shape has $\frac{1}{2}$ shaded?

2. What is $\frac{1}{2}$ of 8? 16 5 4 3

3. Complete the number sentence. $\frac{1}{2}$ of 12 = 4. 6 2 16 8

4. What is the same as $\frac{1}{2}$ of 8? $\frac{1}{2}$ of 8 $\frac{2}{2}$ of 8 $\frac{1}{4}$ of 8 $\frac{2}{4}$ of 8

5. Sara cuts a cake into 4 equal pieces. She eats 3 pieces. How much has she eaten? $\frac{1}{4}$ $\frac{3}{4}$ $\frac{1}{3}$ $\frac{3}{3}$

Think!
Here are eight fractions.
 $\frac{1}{2}$ $\frac{2}{4}$ $\frac{1}{4}$ $\frac{2}{2}$ $\frac{3}{4}$ $\frac{2}{2}$ $\frac{1}{2}$ $\frac{3}{4}$
Sort the fractions into groups.
Explain how you have sorted them.

unit fraction	non-unit fraction
<input type="checkbox"/>	<input type="checkbox"/>

These words might help you. quarters thirds halves half whole part

Unit 10

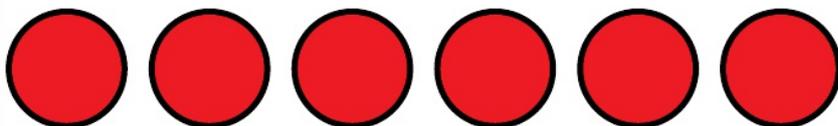
Fractions



In this unit we will ...

- ⚡ Learn about the whole and equal parts
- ⚡ Recognise and find a half
- ⚡ Recognise and find a quarter
- ⚡ Learn about unit and non-unit fractions
- ⚡ Learn about equivalent halves and quarters

What is half of 6?
You can use counters to help.





We will need some maths words. Some are new. Which words do you remember?

half ($\frac{1}{2}$)

quarter ($\frac{1}{4}$)

third ($\frac{1}{3}$)

three quarters ($\frac{3}{4}$)

whole

equal parts

equivalent

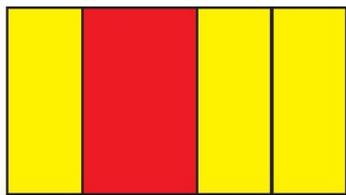
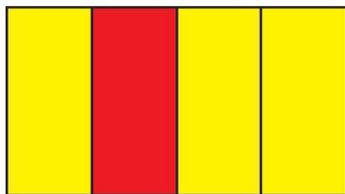
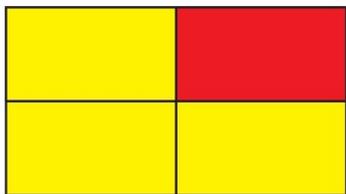
denominator

numerator

non-unit fraction

unit fraction

Which of these is the odd one out? Why?



Introducing parts and wholes

Discover

There are 7 continents



a) Complete the sentences.

The _____ is the **whole**.

The _____ are the parts.

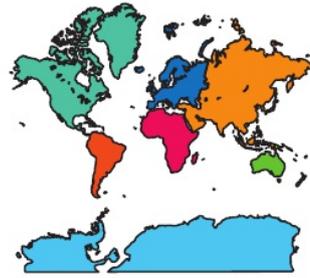
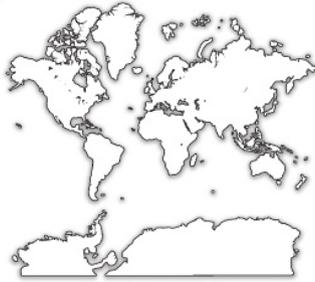
world

continents

b) How many parts are there?

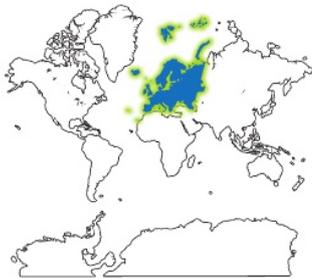
Share

a)

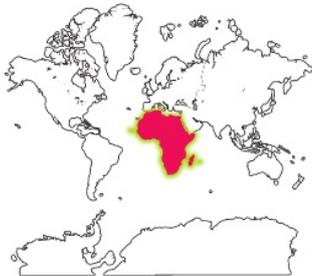


The world is the whole.

The continents are the parts.



The world is the whole. Europe is a part.



The world is the whole and Africa is a part.



I made lots of sentences using the words 'whole' and 'part'.

b) There are 7 continents, so there are 7 parts.



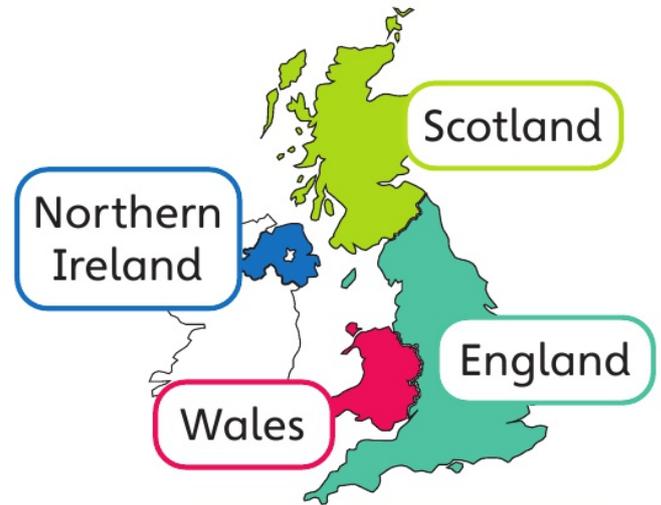
I wondered if the parts were **equal**.



Think together

1 Complete the sentences.

Here is the United Kingdom.
There are 4 countries in
the United Kingdom.



a) The _____ is the whole.

b) _____ is a part.

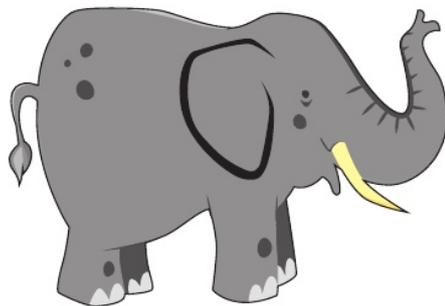
I think there is
more than one way
to complete this.



2 Here is an elephant.

Complete the sentences in different ways.

Use the words in the box.



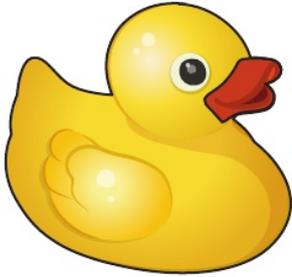
a) The _____ is the whole.

b) The _____ is a part.

elephant
trunk
ear
tail
tusk
eye

3 Use the words 'whole' and 'part' to complete these sentences.

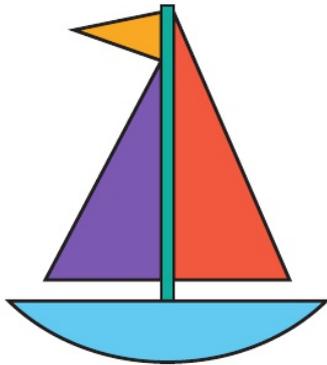
a)



The duck is the _____ .

The beak is a _____ .

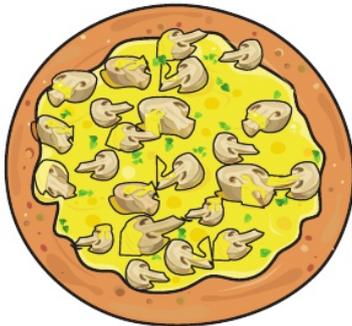
b)



The sail is a _____ .

The boat is the _____ .

c)



The pizza is the _____ .

The cheese is a _____ .

Equal and unequal parts

Discover

This is not fair.



- 1** a) Why is this not fair?
What could have been done differently?
- b) Divide the cake fairly between 4 children.

Share

a)

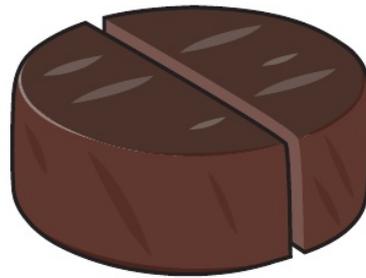


I saw that the pieces were not equal.

'Equal' means 'the same'.



It is not fair because one of the parts is bigger than the other.



They could have cut the cake into 2 **equal parts**.

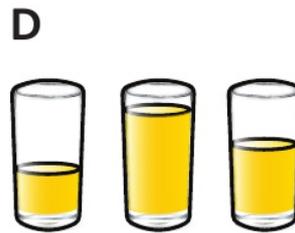
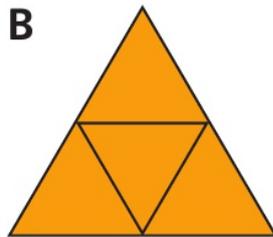
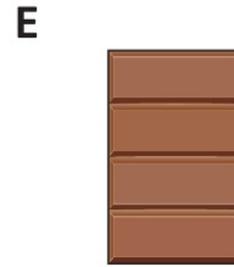
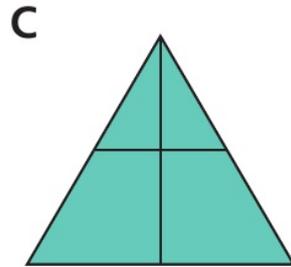
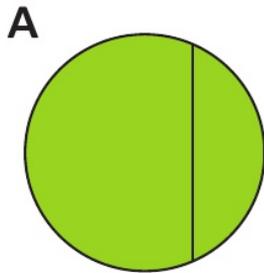
b)



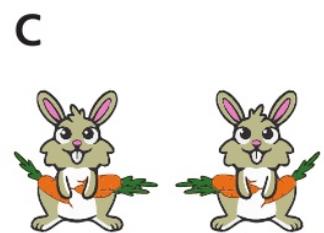
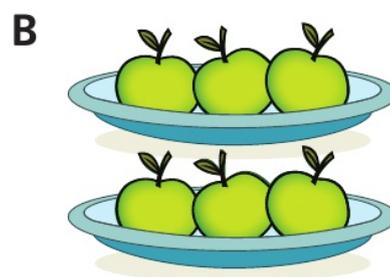
The cake has been cut into 4 equal parts.
Each child will get the same size piece.

Think together

1 Which show equal parts?



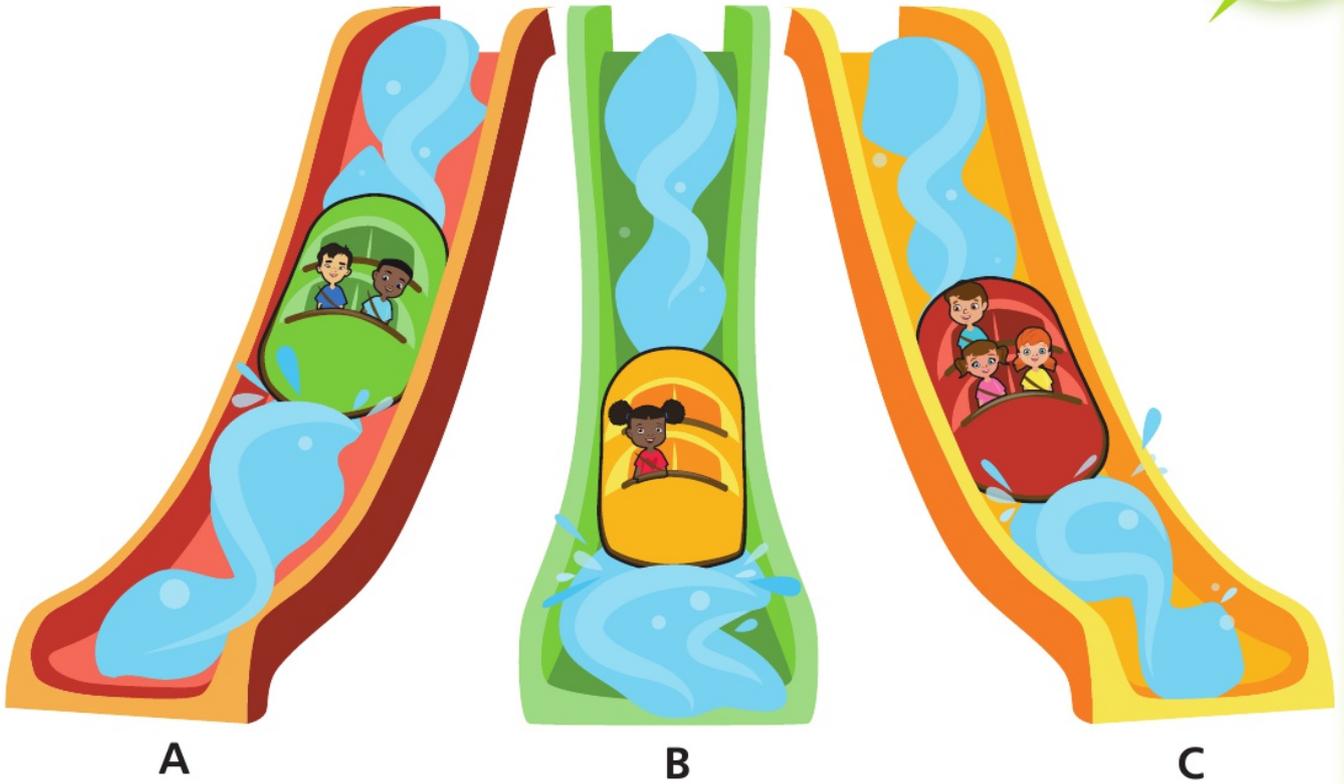
2 Which is the odd one out? Explain why.



The 'odd one out' is the picture that is different to the others in some way.


CHALLENGE

3 How could you make equal groups of children?



I think there is more than one way to do it, if I don't use all the boats.

Recognise a half

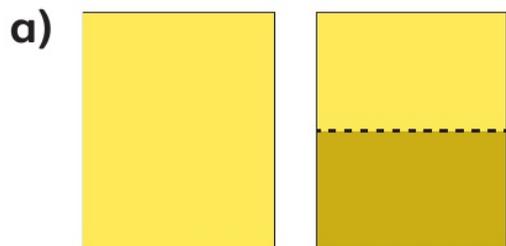
Discover

Fold your sheet of paper in half.



- I** a) Fold a sheet of paper in half, then open it up. What do you see?
- b) Discuss with a partner what you know about $\frac{1}{2}$.

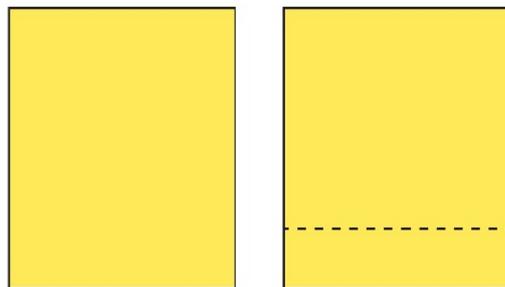
Share



Halves are when you make 2 equal parts. I made sure I folded my paper accurately.



I did not fold my paper accurately. These parts are not equal. These are not halves.



b) The **denominator** is the total number of equal parts.

The denominator of $\frac{1}{2}$ is 2.

There are two equal parts.

The **numerator** is how many of the equal parts there are.

The numerator of $\frac{1}{2}$ is 1.

It is one of two equal parts.

