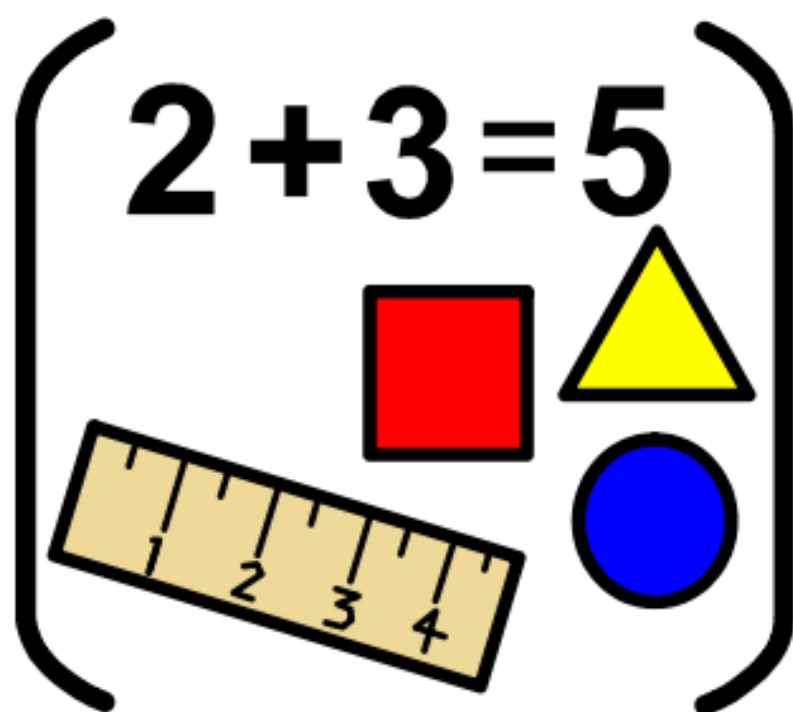




Maths

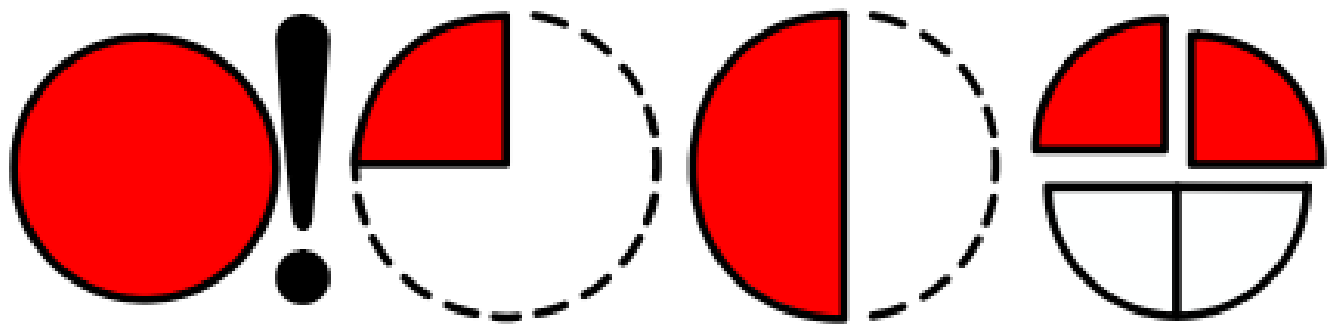


Information for Grown ups



How to use this learning resource

1. Work through the different pages.
2. Learn about the Maths skill together using the explanation and work through the examples.
3. Complete the practice activities together.
4. Click the links to watch the videos.
5. Click the links for more information.
6. Play the games together.
7. Can you find things around the house to help you keep practicing?



Fractions



What

is this



skill

and



why

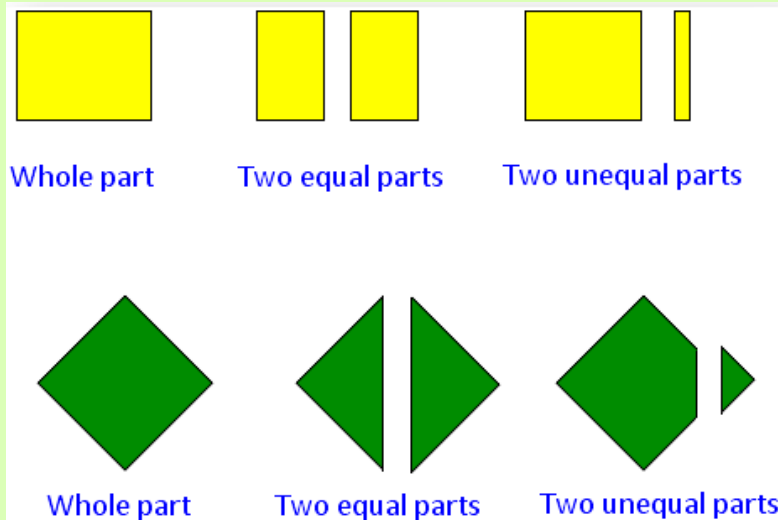
is it



important?

Fractions help children:

- Develop division and subtraction skills
- Learn and use the vocabulary 'half' and 'whole' correctly.
- Use reasoning skills.



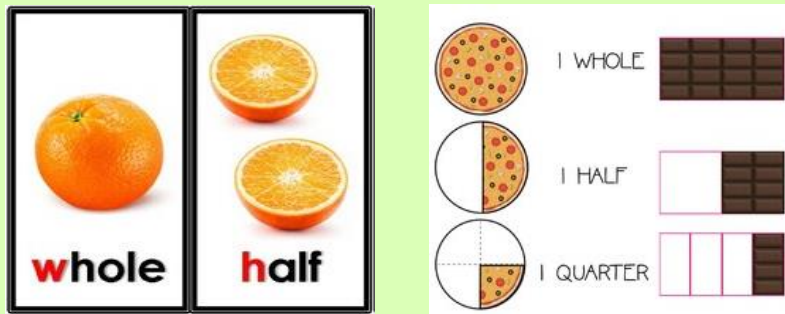
Parts & Wholes is an early fraction skill. This leads on quickly to whole, half and quarter.

Half is often learnt through food, e.g. If we cut toast (a whole) in half we have 2 pieces and each of those pieces (the parts) are rectangles.

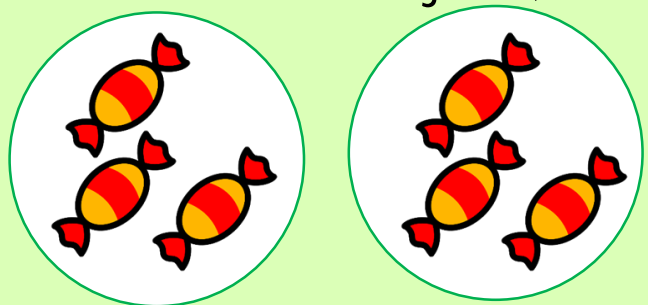


A half means 'one of two equal parts'.

First practice meaning of whole and half using shapes (circle, rectangle and square) and asking your child to show you halves or can they colour one half?

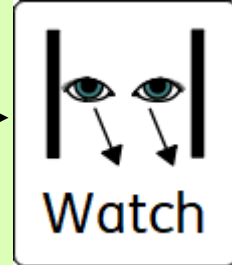


Progress learning by giving your child an even number of objects (for example: sweets, pasta shapes or counters). Ask them to divide the group into two groups of the same number. They may not be sure of how to do this, so you may need to draw two big circles on a piece of paper and show them how to share the objects, one by one, into the two circles.



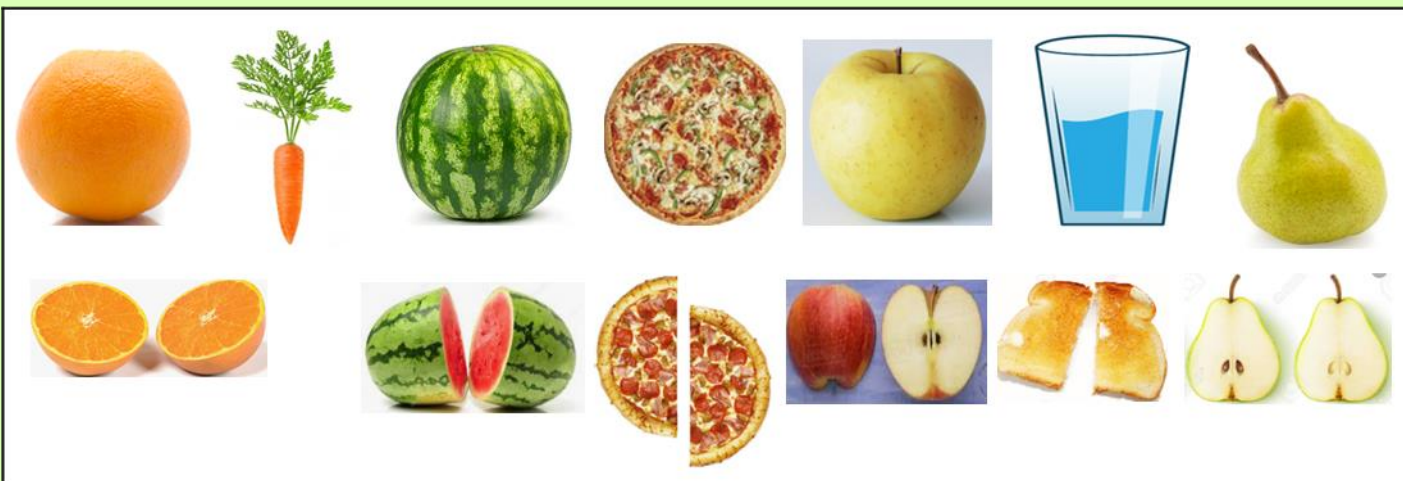


Click the link →



Remember that a half means 'one of two equal parts' and you are able to count them.

Can you identify the whole and half of these foods?



Comment to prompt your child's thinking:

- I wonder how many parts I have split my melon into to get half?
- I can see a whole pizza and 2 halves of a pizza.

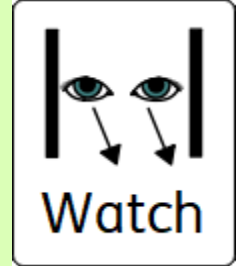
Ask questions such as:

- How can I show half of something?
- How many halves make a whole?
- I have 3 half apples, does that make a whole apple?

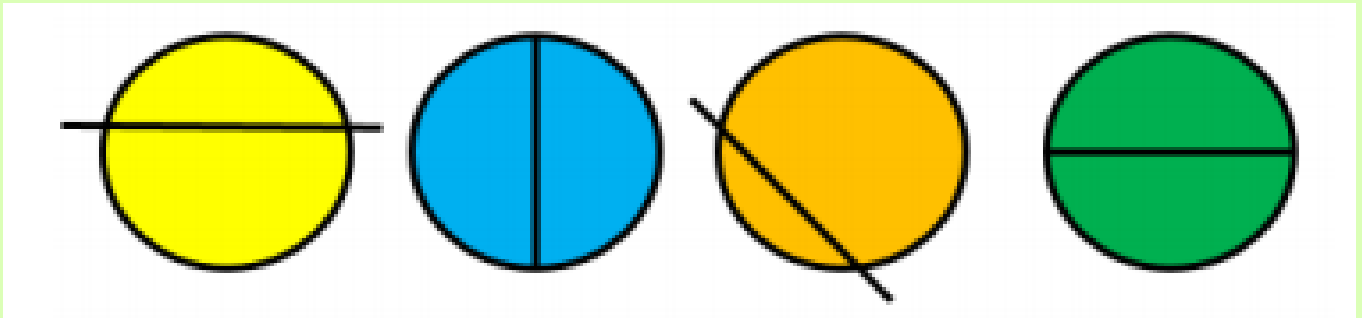




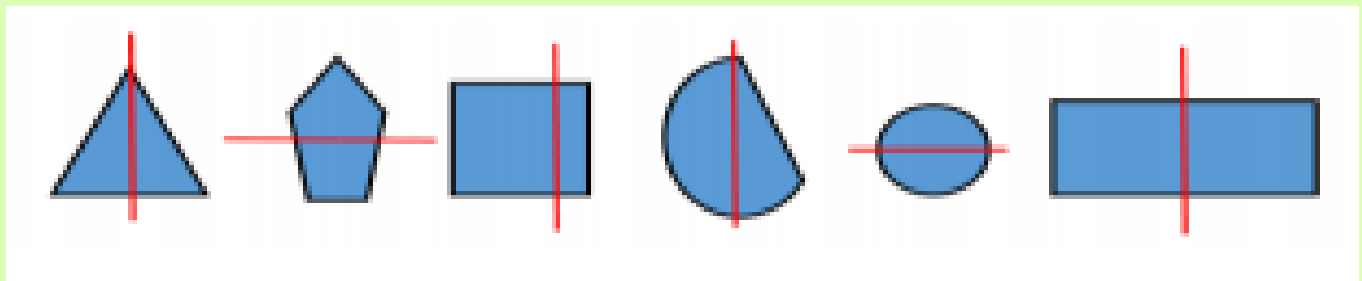
Click the link



Which circles have been split into equal halves?

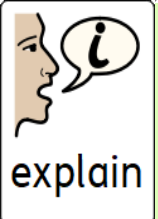


Which shapes are split in half?



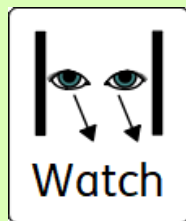
Ask questions such as:

- 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?

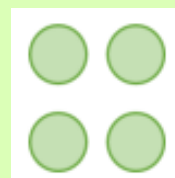
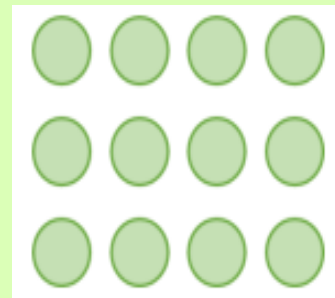




Click the link →



I can see different amounts of green dots. Can you count them? Can you find half of each amount?



I can see one group of beads and one group of marbles. Can you count them? Can you complete the sentences?



There are ____ beads.

Half of ____ is ____



There are ____ marbles.

Half of ____ is ____

Ask questions such as:

- 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?



Let's



practice...



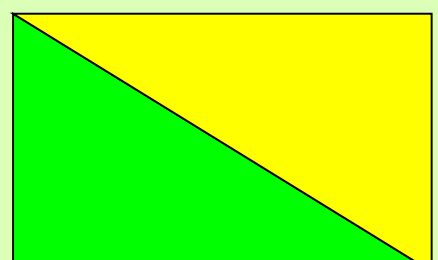
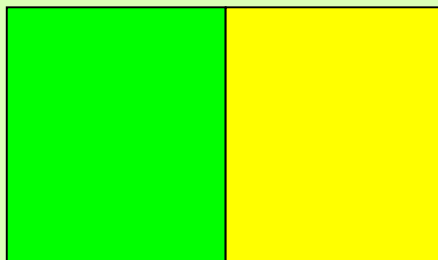
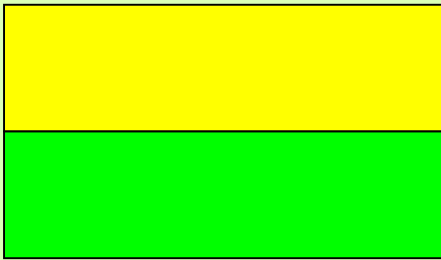
REMEMBER

to



comment

Give your child an A4 piece of paper, and challenge them to fold it in half in different ways.



Repeat with circles, squares, semi-circles and equilateral triangles

1. Can you say what you see?
2. Can you explain a half and whole?
3. Can you show me how to make a half from this shape?



say

Comment on what your child is doing:

- I wonder how can you half this shape.
- I can see you are folding a rectangle.
- I can see you are colouring one half.



Let's



practice...



REMEMBER

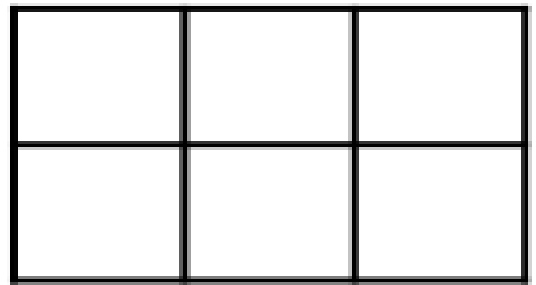
to



comment

Look at the shape, work through the questions together:

Copy the shape on the piece of paper. How many different ways can you shade one half of the shapes?



1. Can you say what you see?
2. How many whole squares do you have to shade to show me a half?
3. How many combination can you make?

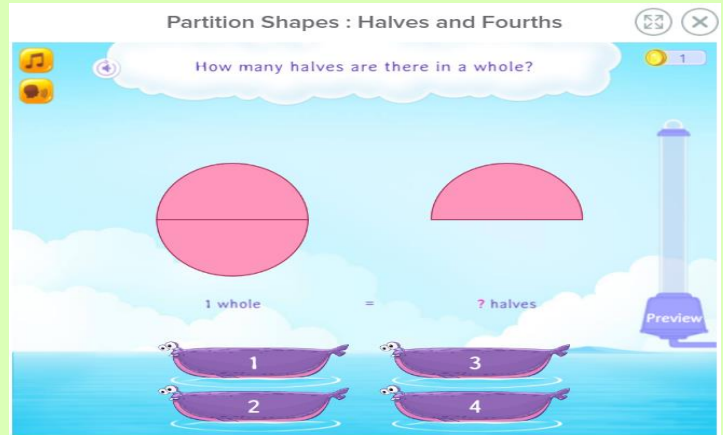
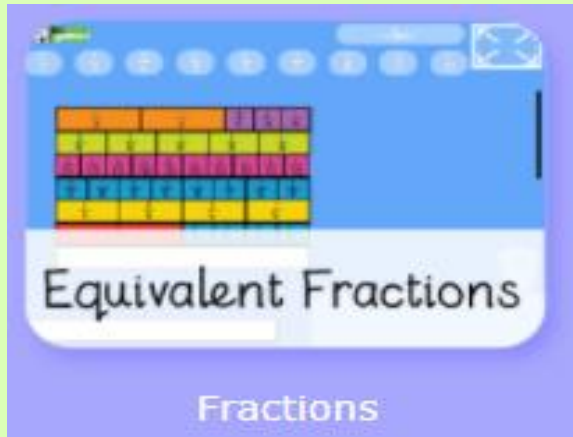
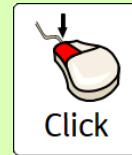
Challenge:

Can you find half of an amount of these groups?





Click on the pictures to follow the link to different games.

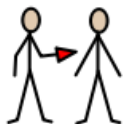




What



can



you

do



with

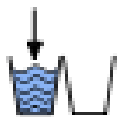


things

around the



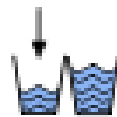
house?



Full

+

and



half full

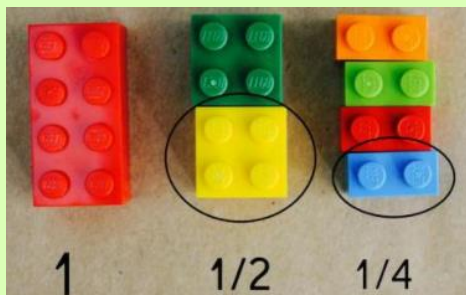
Use a range of containers Fill them up with rice / water. Can you show me half (quarter) in each container? Do they look the same or different?



Lego

$\frac{7}{10}$

fractions



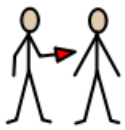
Make fractions with Lego bricks. Gather several same-sized Lego pieces in different colors. 4-dot bricks are a great choice for teaching fractions by color.



What



can



you

do



with



things

around the



house?



Food

$$\frac{7}{10}$$

fractions

Divide different food, for example sweets, equally among two people or split food like banana, pizza, cake etc. into two equal parts.



Paper



plate

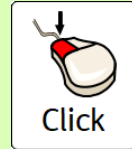
$$\frac{7}{10}$$

fractions



Colour the paper plates and then cut them up to represent different fractions.

Click on the each box to follow the link to a website with useful information



Useful



website



links

NRICH website – Fraction KS1

NRICH website – Fraction KS1

NRICH website – Fraction KS1

Teacher boards – 10 maths games that are fun for KS2 .

BBC Bitesize – Fractions KS1

STEM Learning – Fractions Year 1&2