

The Flourish Federation—Knowledge Organiser

Brookfield Infant and Junior Schools



Subject Focus:

Maths

Year 2 - Term 3

Fractions

What? (Key Knowledge)

Recognise, find, name, write and identify $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{2}$, $\frac{2}{4}$, $\frac{3}{4}$ of length, shapes and a set of objects or quantities.

Know that all parts of a fraction must be equal.

Write simple fractions of amounts ($\frac{1}{2}$ of 6 = 3)

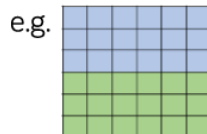
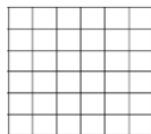
Recognise some basic equivalences ($\frac{1}{2}$ is the same as

What? (Key Vocabulary)

Vocab	Comments
Numerator	The number above the line — the number of parts which are taken by
Denominator	The number below the line — the total number of parts.
Equal	The same as.

Visuals/Diagrams

Use different colours to show how this shape can be split into equal parts.

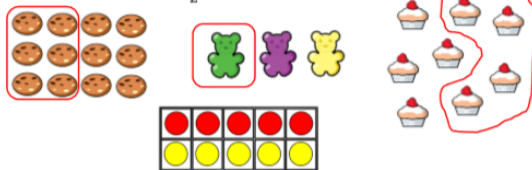


How many ways can you find?

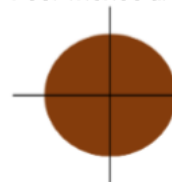
Which pictures show $\frac{1}{2}$?



Which pictures show $\frac{1}{2}$?



Four friends are sharing a cake.



The cake is split into ____ equal parts.

Each part is worth a _____.

This can be written as $\frac{\square}{\square}$

Who has more? Explain why.



Rosie

I have $\frac{1}{4}$ of £8



Whitney

I have $\frac{1}{2}$ of £6

Match the unit fraction to the correct picture.



$\frac{1}{4}$



$\frac{1}{3}$

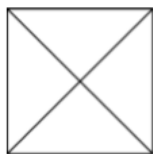


$\frac{1}{2}$

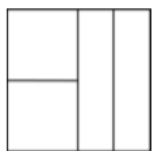
Examples of Reasoning

Three children are splitting a square into equal parts.

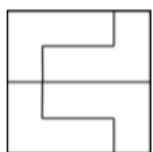
Teddy



Alex



Mo



Who has split the square into equal parts? Explain why.

All children have split the square into equal parts. Children may need to cut out the pieces and manipulate them to prove why.

Odd One Out



$$\frac{1}{2}$$



One half

Which is the odd one out?
Explain your answer.

Children need to link their explanation to the shape not having two equal parts.



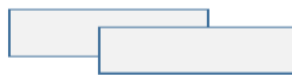
Examples of Problem Solving

Can you split the teddies into three equal groups?
Can you split the teddies into three unequal groups?



How many ways can you split the teddies into equal parts?
Be systematic in your approach.

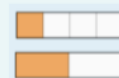
Alex is folding two identical paper strips.



I think $\frac{1}{4}$ of the strip will be bigger than $\frac{1}{2}$ of the strip because 4 is bigger than 2

Use paper strips to prove Alex is incorrect.

Possible answer:
When the whole is the same, one quarter will be smaller because it is one of four equal parts compared to a half which is one of two equal parts.



ICT Opportunities

Purple Mash:

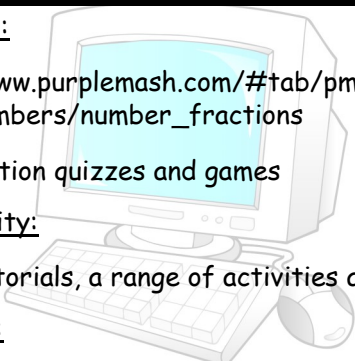
- https://www.purplemash.com/#tab/pm-home/maths/numbers/number_fractions
- Many Fraction quizzes and games

Education City:

- Videos, tutorials, a range of activities and games

Manga High:

- A wealth of games, activities and competitions



Daily Maths

- Questioning during the register (How many people are absent? How many children are here? How many more children have school dinners than packed lunch).
- Lining up games - counting on/back, 2x, 5x and 10x table games
- Days of the week/months of the year

