

Fractions Fun at Home

Fractions with toys and everyday objects

Can you put half of your teddies in bed?

$\frac{1}{3}$ of this pizza is for you!
How many slices is this?

Which would you prefer for your pocket money – $\frac{1}{4}$ of £8.00 or $\frac{1}{2}$ of £6.00?

What fraction of my stickers have I given to you?

Can you use dominoes to work out halves of numbers? Are there any numbers that you can't halve?

Have you read half of your book yet? How do you know?

How many different ways can you split these raisins into equal groups (for example 12 raisins could be split into groups of 1,2,3,4,6 and 12)?

Here are 16 grapes. Can you split them into 4 equal groups? Now can you split them into 4 **unequal** groups?

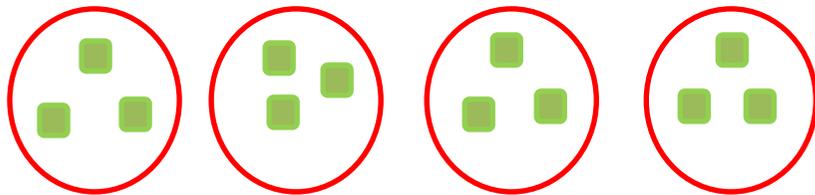


Games

Beanbags and Hoops

Use beanbags and hoops to work out fractions of a number.

For example: $\frac{3}{4}$ of 12



Divide 12 beanbags into 4 equal groups by throwing them into the hoops one by one.

Then count how many beanbags are in 3 of the groups to work out $\frac{3}{4}$ of 12.

This activity could be adapted in lots of ways e.g. dividing stones in the garden into different plant pots, or throwing balls into buckets.

Lego Challenge

Can you build a tower with 12 bricks that is $\frac{1}{2}$ yellow, $\frac{1}{4}$ red and $\frac{1}{4}$ green?

Colouring

Can you split this square into 4 equal parts and colour each part in a different colour? Are there different ways that you could do this? (E.g. split corner to corner diagonally corner to corner, or in horizontal or vertical bands).

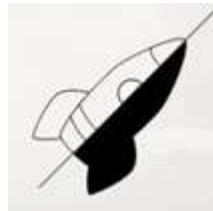
Fractions Battle (see attachment)

This is like Top Trumps but the person with the highest fraction wins. If the fractions are equivalent (e.g. $\frac{2}{4}$ and $\frac{1}{2}$) then no-one wins.

Fraction Pictionary Children draw images that show a fraction of a shape or object for the other person to guess, e.g.



$\frac{3}{4}$ of the sun



$\frac{1}{2}$ of a rocket

Online games

Hit the Button: <https://www.topmarks.co.uk/maths-games/hit-the-button>

Fractions: Equality https://phet.colorado.edu/sims/html/fractions-equality/latest/fractions-equality_en.html

Monty's Maths Wall: https://mathsframe.co.uk/en/resources/resource/292/Montys_Maths_Wall

Fraction Fiddle <http://www.scottle.edu.au/ec/viewing/L2801/L2801/index.html#>

Fraction Beach: http://www.learnalberta.ca/content/me3us/flash/lessonLauncher.html?lesson=lessons/10/m3_10_00_x.swf