



*Learning, growing, caring, sharing*

## Fractions



**Helping your child with maths**

## What does my child need to learn about fractions?

### At Early Level (Primary 1)

#### Experiences and Outcomes

*I can share out a group of items by making smaller groups and can split a whole object into smaller parts.*

#### Example questions



1. How many lollies are there?  
Share them **equally** among **4** boys.  
How many lollies will each boy get?



2. Draw a straight line, to split the pizza into **two equal parts**.
3. Split these into **groups**, each with the **same amount**



2 Groups

## At First Level (Primary 2-4)

### Experiences and Outcomes

*Having explored fractions by taking part in practical activities, I can show my understanding of:*

- *How a single item can be shared equally*
- *The notation and vocabulary associated with fractions*
- *Where simple fractions lie on the number line.*

*Through exploring how groups of items can be shared equally, I can find a fraction of an amount by applying my knowledge of division.*

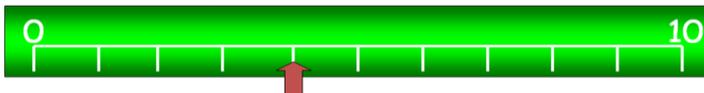
*Through taking part in practical activities including use of pictorial representations, I can demonstrate my understanding of simple fractions which are equivalent.*

### Example questions

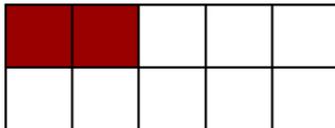
1. Show how to cut the chocolate square so that Mark, Lucy, Colin and Helen get an **equal** share.



2. What fraction is represented on this number line?



3. Write down the fraction that is shaded



4.  $\frac{1}{4}$  of 36 =  $\frac{1}{8}$  of 640 =  $\frac{1}{10}$  of 400 =
5. 120 supporters watched the football match between Easthouses and Star A.  $\frac{1}{3}$  of the supporters supported Star A. How many supporters supported Star A?
6.  $\frac{1}{2} = \frac{3}{?}$



## At Second Level (Primary 4-7)

### Experiences and Outcomes

*I have investigated the everyday contexts in which simple fractions, percentages or decimal fractions are used and can carry out the necessary calculations to solve related problems.*

*I can show the equivalent forms of simple fractions, decimal fractions and percentages and can choose my preferred form when solving a problem, explaining my choice of method.*

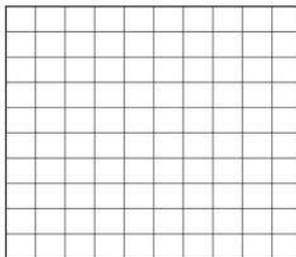
*I have investigated how a set of equivalent fractions can be created, understanding the meaning of simplest form, and can apply my knowledge to compare and order the most commonly used fractions.*

### Example questions

1. Sixteen Aliens visit earth. Twelve of them are green. What fraction are not green?
2. A child's golf club is  $\frac{3}{4}$  of a metre long, what percentage of a metre is this?



3. Shade in the square below as follows: 35% red, 0.4 blue and  $\frac{1}{5}$  green



4. Write down fractions equivalent to  $\frac{3}{5}$ ,  $\frac{6}{10}$ ,  $\frac{11}{20}$
5. Make these fractions more simple:  $\frac{3}{18}$ ,  $\frac{18}{54}$ ,  $\frac{14}{49}$
6. Change to a fraction : 20%, 35%

7. Change to a decimal: 75%, 15%
8. Change to a percentage :  $\frac{1}{5}$ , 0.8,  $\frac{7}{10}$
9. Calculate  $\frac{4}{8}$  of 328 and 5% 820

## What you can do to help

- Create example questions like those in this booklet.
- Ensure your child understands what the key terms and words associated to fractions mean. Use some of the following terms - fraction, equivalent, simplify, improper fraction, mixed number fraction, numerator, denominator, whole, half, thirds, quarters, fifths
- Make sure your child understands the link between fractions and multiplication and division. For pupils to have great success they need to work on their number facts. Practice those tables.
- Practice contextualised fraction problems. When sharing food at home practice grouping e.g. share those grapes between the members of your family. Ask your child to equally cut the pizza into  $\frac{1}{4}$  and provide toppings which your child can equally share.
- Allow your child to access some of the websites provided below, which provide excellent games related to fractions:
  - [www.topmarks.co.uk](http://www.topmarks.co.uk)
  - [www.mathsisfun.com](http://www.mathsisfun.com)
  - [www.topicbox.org.uk](http://www.topicbox.org.uk)
  - [www.primaryresources.co.uk](http://www.primaryresources.co.uk)
  - [www.bbc.co.uk/skillswise](http://www.bbc.co.uk/skillswise)
  - [www.crickweb.co.uk](http://www.crickweb.co.uk)
  - <http://resources.woodlands-junior.kent.sch.uk/maths/fractions/>



