## Fractions, decimal fractions and percentages



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| Equal sharing / fair <br> sharing | The early stages in learning about division and <br> fractions involve sharing outa number of <br> objects fairly (into equal shares). <br> Learners will also explore situations where this <br> is not possible, where some objects will be left <br> over. | Fractions, decimal fractions and percentages <br> can be used interchangeably. Equivalence of <br> commonly used fractions, decimal fractions <br> and percentages |
| :--- | :--- | :--- |
| Equive very useful to know. <br> fractions, decimale <br> fractions and <br> percentages | Fractions which have equal value are known <br> as equivalent fractions. Diagrams are helpful <br> in finding families of equivalent fractions. |  |

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## 3 | Numeracy and mathematics glossary

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| Percentage | Percent means parts per 100. <br> The symbol used is \%. | $25 \%$ of this diagram is shaded green. |
| :---: | :---: | :---: |
| Proper fraction | A fraction where the numerator is less than the denominator. |  |
| Proportion | Quantities are in proportion to one another if a multiplication or division of one quantity is accompanied by a multiplication or division in the other. | If 3 oranges cost $£ 1.05$ then 1 orange would cost 35 p. If a recipe for 12 scones uses 225 g of flour then 450 g would be needed for 24 scones. |
| Ratio | A ratio shows the relative sizes of two or more quantities and describes how these quantities are related. <br> A ratio can be expressed in words or by using a colon. | The diagrams below show red and yellow dots in the ratio 1:2. For every one red dot there are 2 yellow dots. The ratio of yellow dots to red dots is 2:1. |
| Unit fraction | Any fraction with a numerator of 1. |  |

4 | Numeracy and mathematics glossary

