

TARGET To solve word problems involving finding fractions of numbers and quantities.

Example

The Hadrian's Wall Path is 84 miles long. Esme has walked five twelfths of its length. How much further does she have to walk to complete the whole Path?

$$84 \div 12 = 7$$

$$7 \times 5 = 35$$

$$84 - 35 = 49$$

Answer 49 miles



A

- 1 There are 24 footballs. One third need pumping up. How many are ready to use?
- 2 A television programme lasts for one hour. One fifth of the time is adverts. How long is the programme itself?
- 3 There are 120 tissues in a box. One sixth are used. How many are left?
- 4 There are 36 cars in a car park. A quarter of the cars are white. How many are not white?
- 5 A bicycle costs £70. In a sale the price is cut by one tenth. What is the new price?
- 6 A piece of wood is 60 cm long. One third is cut off. How long are the two pieces?

B

- 1 Red and yellow paint is mixed to make one litre of orange paint. Four fifths of the paint is yellow. How much is red?
- 2 There are sixty pupils in Year 4. Three tenths live more than one mile from school. How many live nearer to the school?
- 3 A packet of muesli weighs 350 g. Four sevenths of the mixture is oat flakes. What is the weight of the other ingredients?
- 4 There are 72 stalls at a market. Three eighths sell food. How many do not sell food?
- 5 There are 27 children in a class. Seven ninths belong to sports clubs. How many do not belong to a sports club?
- 6 A cake weighs 300 g. Three quarters is eaten. How much is left?

C

- 1 A shop sells 144 bottles of milk. Four ninths are full fat milk. How many are skimmed or semi-skimmed?
- 2 Chloe has 161 books. Three sevenths of the books are on her top shelf. How many does she keep on her other shelf?
- 3 There are 240 tea bags in a packet. Nine twentieths are used. How many are left?
- 4 A holiday costs £2000. Duncan has saved five eighths of the money. How much more does he need?
- 5 A roll of wrapping paper is six metres long. Seven twelfths has been used. How much is left?
- 6 What is one fifth of one quarter of one kilogram?