

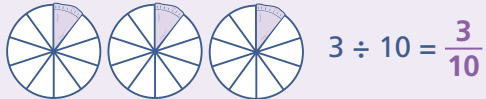
# UNIT 9 Recognise that tenths arise from dividing by 10

## Key point

When 1 pie is shared equally between 10 people, each gets one-tenth.



When 2 pies are shared equally between 10 people each gets two-tenths, and so on.



## Get started

1  $4 \div 10 = \frac{\square}{10}$

2  $7 \div 10 = \frac{\square}{\square}$

3 What is nine divided by ten, as a fraction?

\_\_\_\_\_

4  $\square \div 10 = \frac{9}{10}$

5 What is 2 melons shared equally between 10, as a fraction? \_\_\_\_\_

6 What number divided by 10 gives  $\frac{6}{10}$ ? \_\_\_\_\_

7 What is the arrow pointing to? \_\_\_\_\_



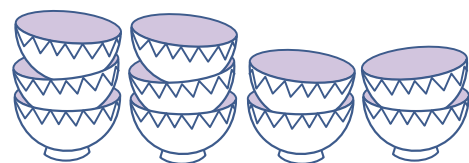
8 Four divided by ten. Write the answer in words.

\_\_\_\_\_

## Now try these

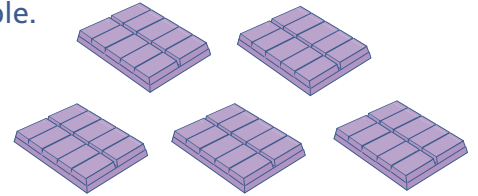
9 If 2 cakes are divided equally between 10 people, what fraction of a cake does each get? \_\_\_\_\_

10 One pot of yoghurt is shared equally into 10 bowls. What fraction of the pot is in each bowl? \_\_\_\_\_



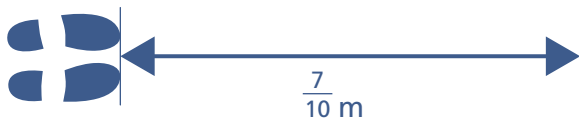
11 An 8m rope is cut into 10 equal lengths. What fraction of a metre is each length? \_\_\_\_\_ m

- 12** A machine makes 10 nails from a piece of metal weighing 9g. What is the weight of each nail as a fraction of a gram? \_\_\_\_\_ g
- 13** Dad poured three litres of lemonade equally into 10 cups. How much is there in each cup?  
Give your answer as a fraction of a litre. \_\_\_\_\_ l
- 14** These five bars of chocolate are split equally between 10 people.  
a) How many chunks does each get? \_\_\_\_\_  
b) What fraction of a bar is this? \_\_\_\_\_
- 15** Tick which is larger.  $3 \div 10$    $\frac{2}{10}$
- 16** 10 sticks are laid touching in a line. Each stick is  $\frac{7}{10}$  m long.  
What is the length of the line? \_\_\_\_\_ m



## Challenge

- 17** True or false? 10 lots of  $\frac{3}{10}$  is 3 wholes. True  False
- 18** A line of 10 squares measures 5m.  
How long is each square, as a fraction of a metre? \_\_\_\_\_ m
- 19** 10 identical boots weigh 4kg in total.  
As a fraction of a kilogram, what does one boot weigh? \_\_\_\_\_ kg
- 20** As he walks, each of Dominic's steps is  $\frac{7}{10}$  m apart.  
If he takes 10 steps, how far from the start has he walked? \_\_\_\_\_ m



- 21** Divide five by ten. Circle two correct answers.  $\frac{1}{5}$   $\frac{10}{5}$   $\frac{5}{10}$   $\frac{1}{10}$   $\frac{1}{2}$
- 22** A bag of sugar is 2kg. Each jar holds  $\frac{2}{10}$  kg of sugar.  
How many jars are needed for all the sugar? \_\_\_\_\_
- 23** Luke walks from home to work and back again each day for 5 days. He walks 8km in total. What is the distance from his home to his work, as a fraction of a kilometre? \_\_\_\_\_ km



- 24** The digit after a decimal point shows the number of tenths, for example,  $0.2 = \frac{2}{10}$ .  
Write 0.4 as a fraction. \_\_\_\_\_