raction and decimal equivalents (3)

4 The Williams family have made a cake. Dad ate 19% of the cake.

Use division to convert fractions to decimals

Mum ate $\frac{1}{8}$ of the cake.

Work out the decimal equivalent for each of these fractions.

The twins ate 0.15 of the cake each.

- $\frac{3}{4} = 3 \div 4 = 0.75$

- $h = \frac{2}{8}$

2 Copy this table.

Fraction	1/2	1/3	1/4	<u>1</u> 5	<u>1</u> 6	<u>1</u> 7	<u>1</u> 8	<u>1</u> 9	1 10
Decimal		10						100	

- a Fill in the decimal equivalents that you know.
- **b** Estimate the decimal equivalents that you do not know.
- c Work out the answers to the decimal equivalents you do not know. Check if your estimates were close.
- Estimate the decimal equivalent for each of these fractions.



- 2 Work out the decimal equivalents for the fractions in Question 1. Round each decimal to these degrees of accuracy:
 - i 2 decimal places
 - ii 3 decimal places
- 3 Compare your estimates and the decimal equivalents from Questions 1 and 2. Which was your closest estimate? Why do you think that was?

- a Who ate the most cake?
- **b** How much of the cake is left?

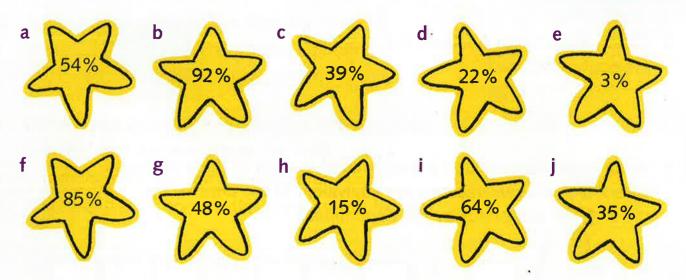
Their brother ate $\frac{1}{5}$.

- c How much of the cake did Mum and Dad eat altogether?
- d How much of the cake did the three children eat altogether?



1 Work out the fraction and decimal equivalents for these percentages. Make sure the fraction is expressed in its simplest form.

You will need: calculator



2 How many fractions can you find that have a decimal equivalent from 0.5 to 0.7? How will you start to investigate this? What do you already know that can help you?

