GCSE HIGHER · REVISION MAT 4

Expressing one quantity as a fraction of another

1 Write 18 as a fraction of 54.

2 Write 250 g as a fraction of 1.5 kg.

3 Explain why 6 out of 10 is the same as $\frac{3}{5}$.

4 A garden is 12 m by 8 m.

A pond in it is 3 m by 2 m.

What fraction of the garden is pond?

5 Show that 18 hours as a fraction of a week is $\frac{3}{28}$.

6 Test A: 34 out of 40.

Test B: 42 out of 50.

In which test was the score a greater fraction?

7 Show that 1 mm is $\frac{1}{1\,000\,000}$ of 1 km.

8 Cubes have sides 2 cm and 4 cm.

What fraction of the large cube's volume is the small cube's volume?

What fraction is its surface area?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Expressing one quantity as a fraction of another

1 $\frac{1}{3}$

2 $\frac{250}{1500}$

$\frac{1}{6}$

3 Divide both by 2.

4 $\frac{6}{96}$

$\frac{1}{16}$

5 $\frac{18}{168}$

$= \frac{3}{28}$

6 0.85 and 0.84

Test A

7 1 km = 1 000 000 mm

$\frac{1}{1\,000\,000}$

8 $\frac{8}{64} = \frac{1}{8}$

$\frac{24}{96} = \frac{1}{4}$