GCSE HIGHER · REVISION MAT 5

Expressing one quantity as a fraction of another

1 Write 35 as a fraction of 50.

2 Write 15 seconds as a fraction of 2 minutes.

3 Explain why 3 out of 12 is $\frac{1}{4}$.

4 A shop has 80 shirts.

25% are sold on Monday and 20 on Tuesday.

What fraction are unsold?

5 Show that 5 cm as a fraction of 2 m is $\frac{1}{40}$.

6 A recipe uses 150 g of sugar, 350 g of flour and 100 g of butter.

What fraction of the mixture is sugar?

7 Show that 72° is $\frac{1}{5}$ of a full turn.

8 A semicircle of radius 4 cm fits inside an 8 cm by 4 cm rectangle.

What fraction of the rectangle does it cover?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 5

Expressing one quantity as a fraction of another

1 $\frac{7}{10}$

2 $\frac{15}{120}$

$\frac{1}{8}$

3 Divide both by 3.

4 $80 - 20 - 20 = 40$

$\frac{1}{2}$

5 $\frac{5}{200}$

$= \frac{1}{40}$

6 $\frac{150}{600}$

$\frac{1}{4}$

7 $\frac{72}{360}$

$= \frac{1}{5}$

8 $\frac{\frac{1}{2}\pi \times 16}{32} = \frac{8\pi}{32}$

$\frac{\pi}{4}$

Mr&Mrs MATHS