GCSE HIGHER · REVISION MAT 1

Expressing one quantity as a fraction of another

1 Write 15 as a fraction of 40.

2 Write 45 minutes as a fraction of 2 hours.

3 Explain why 50p as a fraction of £2 is $\frac{1}{4}$, not $\frac{50}{2}$.

4 In a class of 32, 12 wear glasses.

What fraction do not wear glasses?

5 Show that 750 g as a fraction of 2 kg is $\frac{3}{8}$.

6 Sam spends £18 of £45.

Jo spends £22 of £55.

Who spends the greater fraction?

7 Show that 36° is $\frac{1}{10}$ of a full turn.

8 A square of side 6 cm is drawn inside a circle of radius 5 cm.

What fraction of the circle is covered by the square?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 1

Expressing one quantity as a fraction of another

1 $\frac{3}{8}$

2 $\frac{45}{120}$

$\frac{3}{8}$

3 Use the same units: $\frac{50}{200} = \frac{1}{4}$.

4 $\frac{20}{32}$

$\frac{5}{8}$

5 $\frac{750}{2000}$

$= \frac{3}{8}$

6 $\frac{18}{45} = \frac{2}{5}$, $\frac{22}{55} = \frac{2}{5}$

They spend the same fraction.

7 $\frac{36}{360}$

$= \frac{1}{10}$

8 $\frac{36}{25\pi}$

≈ 0.458

Mr&Mrs MATHS