GCSE FOUNDATION · REVISION MAT 2

One quantity as a fraction of another

1 (a) Write 18 as a fraction of 45.
Give your answer in its simplest form.

(b) What fraction of an hour is 20 minutes?

2 Write 27 out of 36 as a percentage.

3 Kim writes 400 g as a fraction of 5 kg.

Kim writes $\frac{400}{5}$

Explain the mistake Kim has made.

4 Show that 21 out of 25 is a smaller proportion than 34 out of 40.

5 A car journey is 240 km.

168 km of the journey is on motorways.

What percentage of the journey is **not** on motorways?

6 A box has 90 chocolates.

18 are milk chocolates.

$\frac{5}{8}$ of the rest are dark chocolates. The others are white.

What fraction of the box is white chocolates?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

One quantity as a fraction of another

1 (a) $\frac{2}{5}$

(b) $\frac{1}{3}$

2 $\frac{27}{36} = \frac{3}{4}$

$= \mathbf{75\%}$

3 The units must be the same first: 5 kg = 5000 g

$\frac{400}{5000} = \frac{2}{25}$

4 $21 \div 25 = 84\%$

$34 \div 40 = 85\%$

84% is smaller ✓

5 Not on motorways: 72 km

$72 \div 240 \times 100 = \mathbf{30\%}$

6 Rest = 72, dark = 45, white = 27

$\frac{27}{90} = \frac{3}{10}$

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