GCSE FOUNDATION · REVISION MAT 3

One quantity as a fraction of another

1 (a) Write 24 as a fraction of 64.
Give your answer in its simplest form.

(b) What fraction of an hour is 40 minutes?

2 Write 42 out of 60 as a percentage.

3 Lee writes 45 minutes as a fraction of 3 hours.

Lee writes $\frac{45}{3}$

Explain the mistake Lee has made.

4 Show that 18 out of 30 is a smaller proportion than 13 out of 20.

5 A car journey is 150 km.

84 km of the journey is on motorways.

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

6 A box has 72 chocolates.

24 are milk chocolates.

$\frac{1}{4}$ of the rest are dark chocolates. The others are white.

What fraction of the box is white chocolates?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 3

One quantity as a fraction of another

1 (a) $\frac{3}{8}$

(b) $\frac{2}{3}$

2 $\frac{42}{60} = \frac{7}{10}$

$= \mathbf{70\%}$

3 The units must be the same

first: 3 hours = 180 minutes

$\frac{45}{180} = \frac{1}{4}$

4 $18 \div 30 = 60\%$

$13 \div 20 = 65\%$

60% is smaller ✓

5 Not on motorways: 66 km

$66 \div 150 \times 100 = \mathbf{44\%}$

6 Rest = 48, dark = 12, white = 36

$\frac{36}{72} = \frac{1}{2}$