GCSE HIGHER · REVISION MAT 3

Fractions and percentages of amounts

1 Find $\frac{7}{10}$ of 250.

2 Find 12% of 350.

3 Explain why $\frac{1}{5}$ of an amount is the same as 20% of it.

4 Mia earns £1800 a month.
She spends 15% on rent and $\frac{1}{6}$ on food.
How much is left?

5 Show that 40% of $\frac{5}{8}$ of 96 is 24.

6 A school has 840 students.
$\frac{3}{7}$ are boys.
25% of the boys play football.
How many boys play football?

7 Explain why x% of y is always equal to y% of x.

8 $\frac{3}{8}$ of the counters in a bag are red.
40% of the rest are blue.
The other 15 are green.
How many counters are in the bag?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 3

Fractions and percentages of amounts

1 **175**

2 0.12×350

42

3 $\frac{1}{5} = \frac{20}{100} = 20\%$

4 Rent £270, food £300

£1230

5 $\frac{5}{8} \times 96 = 60$

0.4 × 60 = 24

6 $840 \div 7 \times 3 = 360$ boys

90

7 $\frac{x}{100} \times y = \frac{xy}{100} = \frac{y}{100} \times x$

Multiplication can be done in any order.

8 Rest: $\frac{5}{8}$; blue $\frac{2}{8}$; green $\frac{3}{8}$

$\frac{3}{8}$ of total = 15

40

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