GCSE HIGHER · REVISION MAT 5

Fractions and percentages of amounts

1 Find $\frac{2}{7}$ of 98.

2 Find 65% of 180.

3 Explain why multiplying by 0.3 finds 30% of an amount.

4 A car costs £8500.

A 15% deposit is paid, then the rest in 24 equal payments.

Find each payment.

5 Show that $\frac{3}{4}$ of 12% of 500 is 45.

6 A farm grows wheat on $\frac{3}{8}$ of its land and barley on 40%.

The other 18 hectares are grass.

Find the total area.

7 Show that 50% of $x + \frac{1}{4}$ of x = 75% of x.

8 A number is increased by $\frac{1}{5}$ and then decreased by 20%.

Find the overall percentage change.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 5

Fractions and percentages of amounts

1 **28**

2 0.65 × 180

117

3 **30% = $\frac{30}{100}$ = 0.3**

4 Deposit £1275, rest £7225

£301.04

5 12% of 500 = 60

$\frac{3}{4}$ × 60 = 45

6 Grass = 1 − 0.375 − 0.4 = 0.225

18 ÷ 0.225 = 80 hectares

7 0.5x + 0.25x

= 0.75x

8 1.2 × 0.8 = 0.96

A 4% decrease

Mr&Mrs MATHS