GCSE HIGHER · REVISION MAT 3

Percentages and percentage change

1 Increase 80 by 35%.

2 A car bought for £12 000 is sold for £9000.

Find the percentage loss.

3 Explain why increasing an amount by 100% doubles it.

4 A restaurant bill is £64.

A 12.5% service charge is added.

4 people share the bill equally.

How much does each pay?

5 A price after an 8% increase is £129.60.

Show that the original price was £120.

6 A school has 500 students.

The number falls by 8%, then rises by 10%.

How many students are there now?

7 Show that a 20% increase followed by a 20% decrease gives a 4% decrease.

8 A shirt is reduced by 30%, then by a further 20%.

It now costs £33.60.

Find the original price.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 3

Percentages and percentage change

1 80×1.35

108

2 $\frac{3000}{12\,000} \times 100$

25%

3 **100% of the amount is added on: 1 + 1 = 2 times.**

4 $64 \times 1.125 = 72$

£18 each

5 $129.60 \div 1.08$

= 120

6 $500 \times 0.92 \times 1.1$

506

7 $1.2 \times 0.8 = 0.96$

A 4% decrease

8 $0.7 \times 0.8 = 0.56$

$33.60 \div 0.56$

£60

Mr&Mrs MATHS