GCSE HIGHER · REVISION MAT 4

Percentages and percentage change

1 Decrease £45 by 20%.

2 Write 0.6 kg as a percentage of 2.4 kg.

3 Write down the multiplier for an increase of 7%.

Explain.

4 Items cost £4 each.

Offer 1: 3 for the price of 2.

Offer 2: 30% off each item.

Which is cheaper for 3 items?

5 An item costs £68 after a 15% reduction.

Show that it cost £80 before.

6 A tank holds 240 litres.

It loses 15%, then gains 20% of the new amount.

How much does it hold now?

7 A price after 20% off is £40.

Leo says the original price was £48.

Explain his mistake.

8 Rent rises by the same percentage two years running, from £800 to £882.

Find the percentage.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Percentages and percentage change

1 45×0.8

£36

2 $\frac{0.6}{2.4} \times 100$

25%

3 **1.07: 100% + 7% = 107%**

4 Offer 1: £8

Offer 2: $3 \times 2.80 = £8.40$

Offer 1

5 $68 \div 0.85$

= 80

6 $240 \times 0.85 = 204$

204×1.2

244.8 litres

7 He added 20% of £40.

40 ÷ 0.8 = £50

8 $\frac{882}{800} = 1.1025$

$\sqrt{1.1025} = 1.05$

5%