GCSE HIGHER · REVISION MAT 2

Percentages and percentage change

1 Decrease 250 kg by 12%.

2 Write 18 as a percentage of 75.

3 Explain why multiplying by 0.85 decreases an amount by 15%.

4 A salary of £24 000 rises by 4% one year and by 5% the next.

Find the new salary.

5 After a 35% increase, a house is worth £270 000.

Show that it was worth £200 000 before.

6 A population grows from 48 000 to 55 200.

Find the percentage increase.

7 Sam says a 50% increase followed by a 50% decrease gives the original amount.

Show that he is wrong.

8 A shop sells items at 40% more than cost.

In a sale it cuts its prices by 25%.

Find the percentage profit or loss in the sale.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Percentages and percentage change

1 250×0.88

220 kg

2 $\frac{18}{75} \times 100$

24%

3 **100% – 15% = 85% = 0.85**

4 $24\,000 \times 1.04 \times 1.05$

£26 208

5 $270\,000 \div 1.35$

= 200 000

6 $\frac{7200}{48\,000} \times 100$

15%

7 $1.5 \times 0.5 = 0.75$

It gives a 25% decrease.

8 $1.4 \times 0.75 = 1.05$

5% profit

Mr&Mrs MATHS