Percentages Recap

Find a Percentage of a Quantity

Ex   Find 23% of £56

$$56 \times 0.23 = £12.88$$

Express One Quantity as a Percentage of Another

Ex   Express 38 as a percentage of 85

$$\frac{38}{85} \times 100\% = 44.7\%$$

Increase a Quantity by a Given Percentage

Ex   Increase £44 by 14%

Method 1
Find 14% and
add it on

$$44 \times 0.14$$
$$= £6.16$$

$$£44 + £6.16$$
$$= £50.16$$

Method 2 (Better)
Add on 14% to 100%
and find 114% of £44

$$£44 \times 1.14$$

$$= £50.16$$

Decrease a Quantity by a Given Percentage

Ex   Decrease £125 by 17%

Method 1
Find 17% and

Method 2 (Better)
Subtract 17% from 100%

subtract from £125

125 x 0.17

= £21.25

£125 - £21.25

= £103.75

and find that percentage of £125

100% - 17% = 83%

125 x 0.83

= £103.75