

1. Write 40cm as a percentage of 25cm.

Answer:

$$\frac{40}{25} = \left| \frac{15}{25} \right.$$

$$\left| \frac{60}{100} \right. = 160\%$$

2. (a) Find 145% of £680. (b) Increase £750 by 286%

$$(a) 1.45 \times 680 = 986$$

$$(b) 750 \times 3.86 = 2\,895$$

3. An amount is increased by 50% and then its new amount is increased by 50%.

What is the overall percentage increase?

Answer:

$$\begin{aligned} & \text{Amount} \times 1.5 \times 1.5 \\ &= \text{Amount} \times 2.25 \end{aligned}$$

So an increase of 125%

4. In July 2015, it cost £25 to send a dozen red roses.
On Valentine's Day 2016, it cost £52 to send a dozen red roses.
Find the percentage increase in price?

Answer:

$$52 - 25 = 27$$

$$\frac{27}{25} = 1.08$$

So an increase of 108%

5. In 1993, a house was purchased for £48 000.
In 2016, the house was sold for £180 000.
Find the percentage increase in price?

Answer:

$$180\,000 - 48\,000 = 132\,000$$

$$\frac{132\,000}{48\,000} = 2.75$$

So an increase of 275%