

# Answer 4

## Percentages: Profit and Loss

1. Jane bought a brooch for £100. She sold the brooch to a friend for £150. What is the profit in percentage?

Profit:  $£150 - £100 = £50$

**Formula: profit/original price x 100**

**Percentage:  $50/100 \times 100 = 50\%$**

2. A shop bought a table for £120 and sold it for £200. What is the profit in percentage?

Profit:  $£200 - £120 = £80$

**Formula: profit/original price x 100**

**Percentage:  $80/120 \times 100 = 66\frac{2}{3}\%$**

3. Imran bought a clock for £500 and sold it for £850. What is the profit in percentage?

Profit:  $£850 - £500 = £350$

**Formula: profit/original price x 100**

**Percentage:  $350/500 \times 100 = 70\%$**

4. Mary bought a television for £800 and sold it for £600.

What is the loss in percentage?

$$\text{Loss: } £800 - £600 = £200$$

$$\text{Formula: } \text{loss/original price} \times 100$$

$$\text{Percentage: } 200/800 \times 100 = \mathbf{25\%}$$

5. A shop bought a mirror for £75 and sold it for £60.

What is the loss in percentage?

$$\text{Loss: } £75 - £60 = £15$$

$$\text{Formula: } \text{loss/original price} \times 100$$

$$\text{Percentage: } 15/75 \times 100 = \mathbf{20\%}$$