

## Shopping problems 1 - answers

Calculate the average (mean) by adding up the figures and then dividing by the number of figures:

**average = total amount divided by the total number of figures**

Below are the shopping bills for 5 different households over 5 weeks. Work out what the average shopping bill is for each household over the 5 weeks.

1. £20, £30, £50, £40, £60

The total bill for the 5 weeks is  $20 + 30 + 50 + 40 + 60 = 200$

Divide this by 5 as there are 5 weeks:  $200 \div 5 = 40$

**The average weekly shopping bill over the 5 weeks is £40.**

2. £60, £90, £70, £80, £100

The total bill for the 5 weeks is  $60 + 90 + 70 + 80 + 100 = 400$

Divide this by 5 as there are 5 weeks:  $400 \div 5 = 80$

**The average weekly shopping bill over the 5 weeks is £80.**

3. £60, £40, £50, £80, £70

The total bill for the 5 weeks is  $60 + 40 + 50 + 80 + 70 = 300$

Divide this by 5 as there are 5 weeks:  $300 \div 5 = 60$

**The average weekly shopping bill over the 5 weeks is £60.**

4. £50, £40, £60, £50, £60

The total bill for the 5 weeks is  $50 + 40 + 60 + 50 + 60 = 260$

Divide this by 5 as there are 5 weeks:  $260 \div 5 = 52$

**The average weekly shopping bill over the 5 weeks is £52.**

5. £90, £70, £30, £50, £90

The total bill for the 5 weeks is  $90 + 70 + 30 + 50 + 90 = 330$

Divide this by 5 as there are 5 weeks:  $330 \div 5 = 66$

**The average weekly shopping bill over the 5 weeks is £66.**