

1 Key mathematical skills

Averages

Guided questions

- 1 a Step 1: $75\,000 + 80\,000 + 105\,000 + 115\,000 = \text{£}375\,000$
Step 2: $\frac{\text{£}375\,000}{4} = \text{£}93\,750$
- b Step 1: $80\,000 + 90\,000 + 100\,000 + 130\,000 = \text{£}400\,000$
Step 2: $\frac{\text{£}400\,000}{4} = \text{£}100\,000$
- 2 Bradford and Leeds
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Practice questions

- 3 a $135 + 40 + 95 = 270$
 $\frac{270}{3} = 90$ stores
- b $135 + 40 + 95 + 6 = 276$
 $\frac{276}{4} = 69$ stores
- 4 $7 + 8 + 10 + 5 = 30$
 $\frac{30}{4} = 7.5$ days
- 5 If the average across the five departments was $\text{£}15\,000$, total spending by all departments must have been $(15\,000 \times 5) = \text{£}75\,000$. The other four departments account for $\text{£}55\,000$ of that spending which means the sales team must have spent $(\text{£}75\,000 - \text{£}55\,000) = \text{£}20\,000$.