## Compound Interest and Depreciation

| 1 | Isla invests $£ 300$ at $4 \%$ compound interest. How much money does she have after 7 years? | A | $£ 228.98$ |
| :---: | :---: | :---: | :---: |
| 2 | Yusuf invests $£ 400$ at $1 \%$ compound interest. How much money does he have after 3 years? | B | $£ 212.80$ |
| 3 | Maria invests $£ 375$ at $2 \%$ compound interest. How much money does she have after 4 years? | C | $£ 348.48$ |
| 4 | Arthur invests $£ 250$ in bonds at 8\% compound interest. How much are the bonds worth after 4 years? | D | $£ 265.92$ |
| 5 | A laptop which costs $£ 450$ depreciates at a rate of $12 \%$ per year. What is it worth after 2 years? | E | $£ 394.78$ |
| 6 | A mobile phone which costs $£ 360$ depreciates at a rate of $14 \%$ per year. How much is it worth after 3 years? | F | $£ 447.18$ |
| 7 | Fiona invests $£ 200$ at $5.5 \%$ compound interest. How much does she have after 3 years? | G | $£ 312.66$ |
| 8 | Jamal invests $£ 5000$ at $2.5 \%$ compound interest. How much interest will he earn in 3 years? | H | $£ 340.12$ |
| 9 | A TV which costs $£ 475$ depreciates at a rate of $13.5 \%$ per year. How much is the TV worth after 4 years? | I | $£ 405.91$ |
| 10 | $£ 275$ is invested for 2 years at $3.5 \%$ interest then 4 years at $1.5 \%$ interest. How much is the investment worth after these 6 years? | J | $£ 234.85$ |
| 11 | Yvonne invests $£ 2750$ at a compound interest rate of $1.25 \%$. How much interest does Yvonne earn in 6 years? | K | $£ 412.12$ |
| 12 | Athar buys a bike for $£ 650$. It depreciates in value by $15 \%$ in the $1^{\text {st }}$ year, $12.5 \%$ in the $2^{\text {nd }}$ year and $7.5 \%$ in the $3^{\text {rd }}$ year. How much is it worth after 3 years? | L | $£ 384.45$ |


| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |  |  |

## Representing Statistical Data


2. The areas in $m^{2}$ of 200 gardens are recorded in a grouped frequency table.

| Area $\left(m^{2}\right)$ | Frequency |  |  |
| :---: | :---: | :--- | :--- |
| $0<A \leq 50$ | 10 |  |  |
| $50<A \leq 100$ | 25 |  |  |
| $100<A \leq 200$ | 80 |  |  |
| $200<A \leq 300$ | 65 |  |  |
| $300<A \leq 500$ | 20 |  |  |

(a) Plot a histogram.

(b) Use your histogram to estimate the number of gardens that are larger than $220 \mathrm{~m}^{2}$.
(c) Use your histogram to estimate the median garden size.

