



# JP Maths

## Revision



Attempt the paper  
before watching the  
solutions!

[https://www.youtube.com/  
@JPMathsRevision](https://www.youtube.com/@JPMathsRevision)



FOUNDATION / HIGHER TIER

## Frequency Polygons



### INSTRUCTIONS

- Use **black ink** or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.



### INFORMATION

- The marks for **each** question are shown in brackets– *use this as a guide as to how much time to spend on each question.*



### ADVICE

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

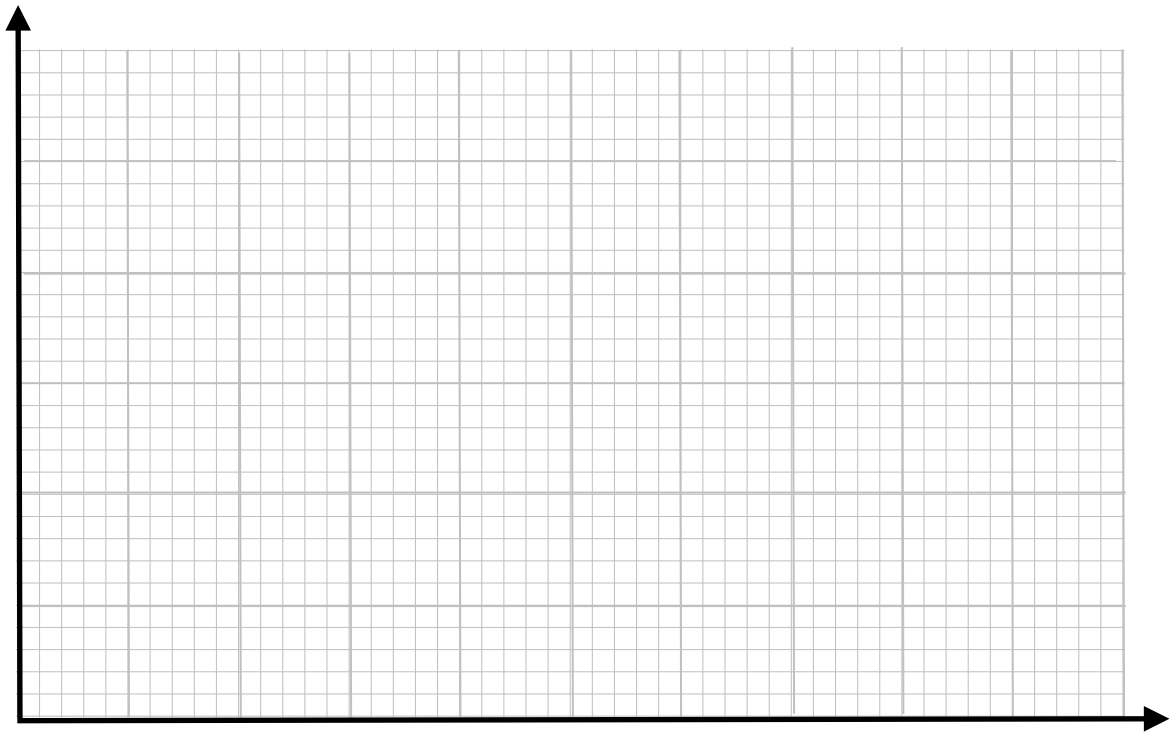


*You've got this!*

1. The table shows the ages of members of a sports club.

| Age, $a$ years   | Frequency |
|------------------|-----------|
| $0 < a \leq 10$  | 4         |
| $10 < a \leq 20$ | 8         |
| $20 < a \leq 30$ | 12        |
| $30 < a \leq 40$ | 10        |
| $40 < a \leq 50$ | 6         |

Draw a frequency polygon for this data.

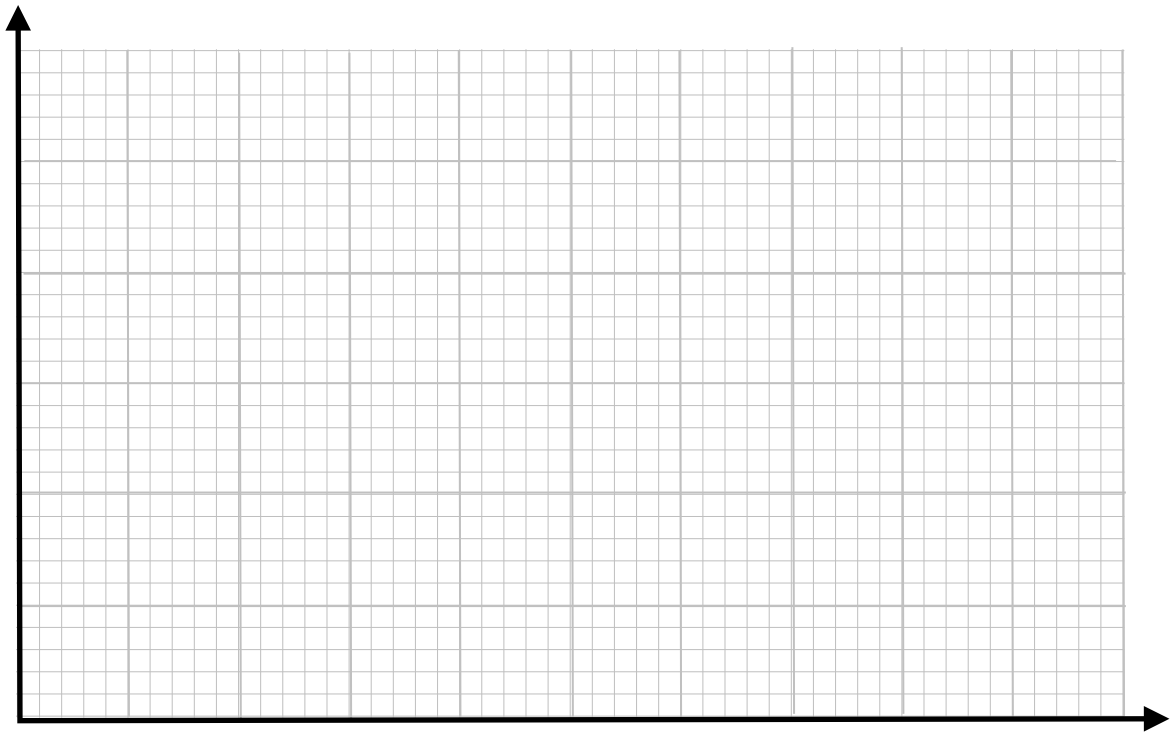


(Total for Question 1 is 3 marks)

2. The table shows the number of books read by students.

| Number of books, $b$ | Frequency |
|----------------------|-----------|
| $0 < b \leq 5$       | 7         |
| $5 < b \leq 10$      | 11        |
| $10 < b \leq 15$     | 12        |
| $15 < b \leq 20$     | 9         |
| $20 < b \leq 25$     | 5         |

Draw a frequency polygon for this data.

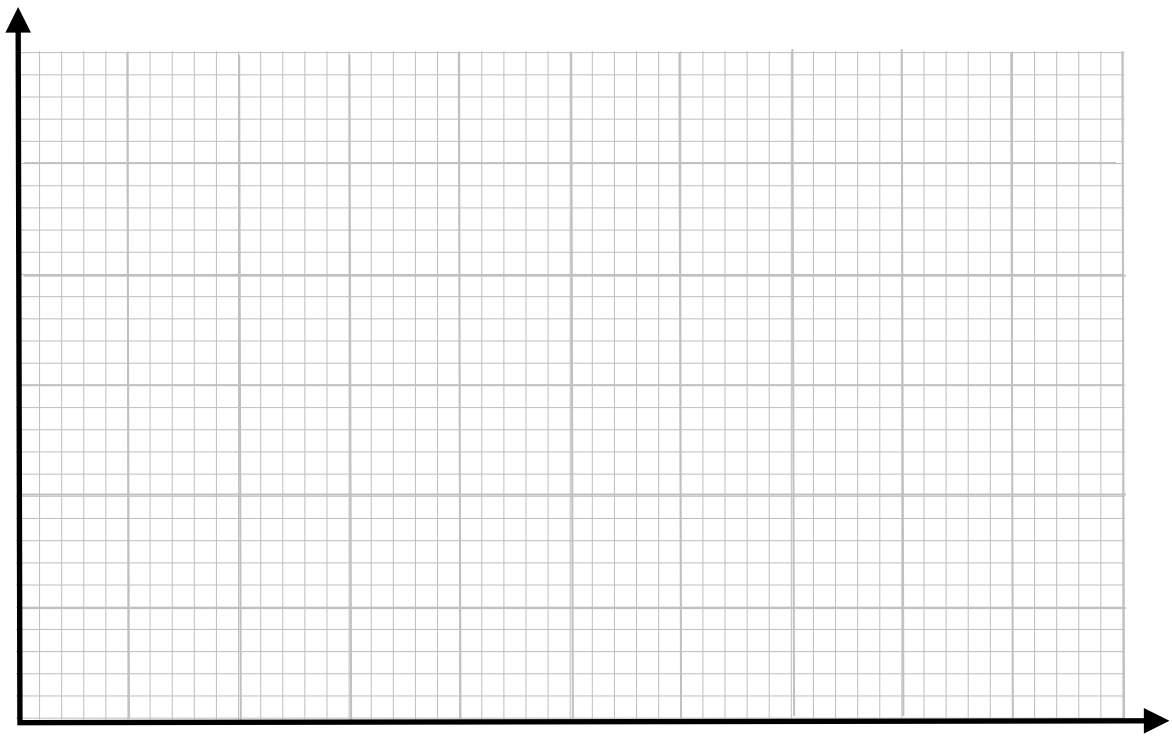


(Total for Question 2 is 3 marks)

3. The table shows the heights of plants.

| Height, $h$ cm     | Frequency |
|--------------------|-----------|
| $0 < h \leq 0.5$   | 3         |
| $0.5 < h \leq 1.0$ | 6         |
| $1.0 < h \leq 1.5$ | 11        |
| $1.5 < h \leq 2.0$ | 8         |
| $2.0 < h \leq 2.5$ | 4         |

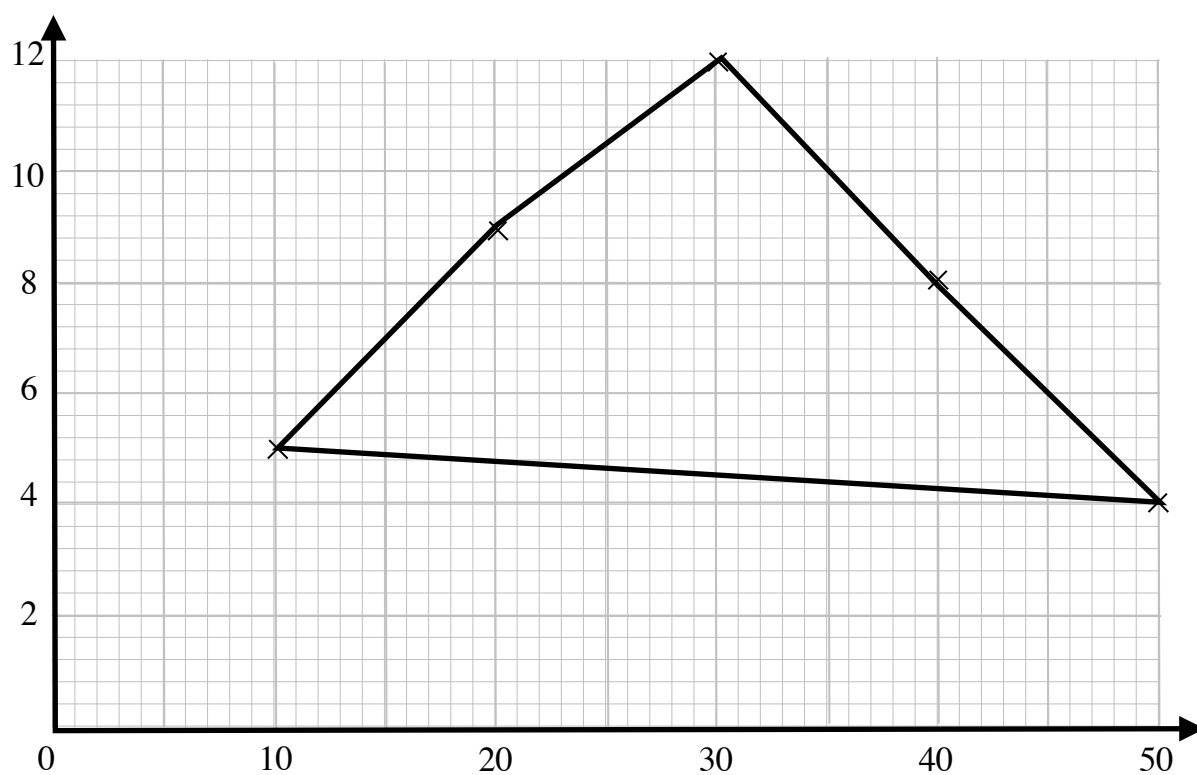
Draw a frequency polygon for this data.



(Total for Question 3 is 3 marks)

4. A student was asked to draw a frequency polygon for the table below.

| Time, $t$        | Frequency |
|------------------|-----------|
| $0 < t \leq 10$  | 5         |
| $10 < t \leq 20$ | 9         |
| $20 < t \leq 30$ | 12        |
| $30 < t \leq 40$ | 8         |
| $40 < t \leq 50$ | 4         |



Write down two mistakes the student has made.

1. ....
- .....
- .....
2. ....
- .....
- .....

(Total for Question 4 is 2 marks)