



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 π button, take the value of π 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.

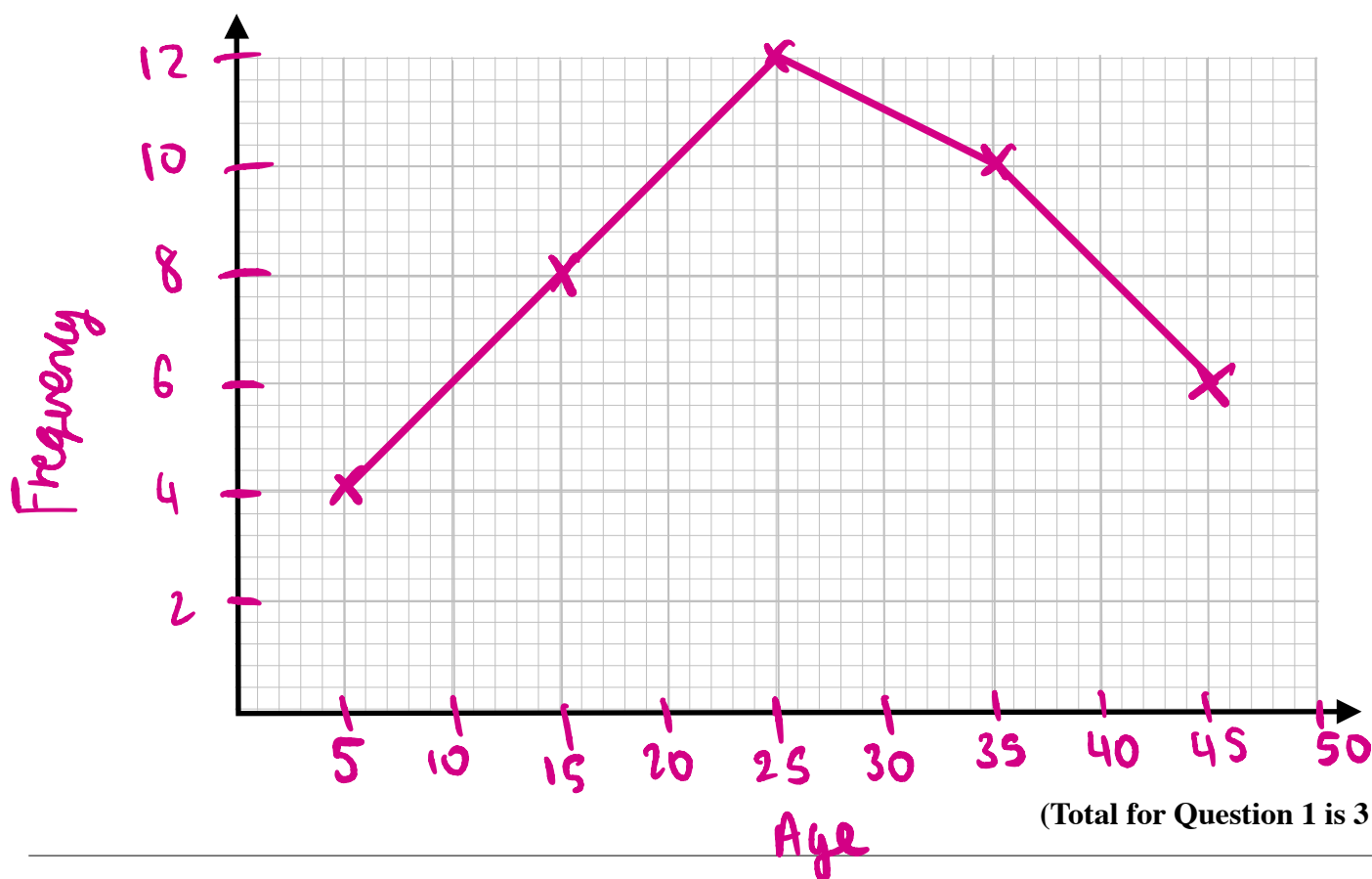


You've got this! 

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.



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.



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

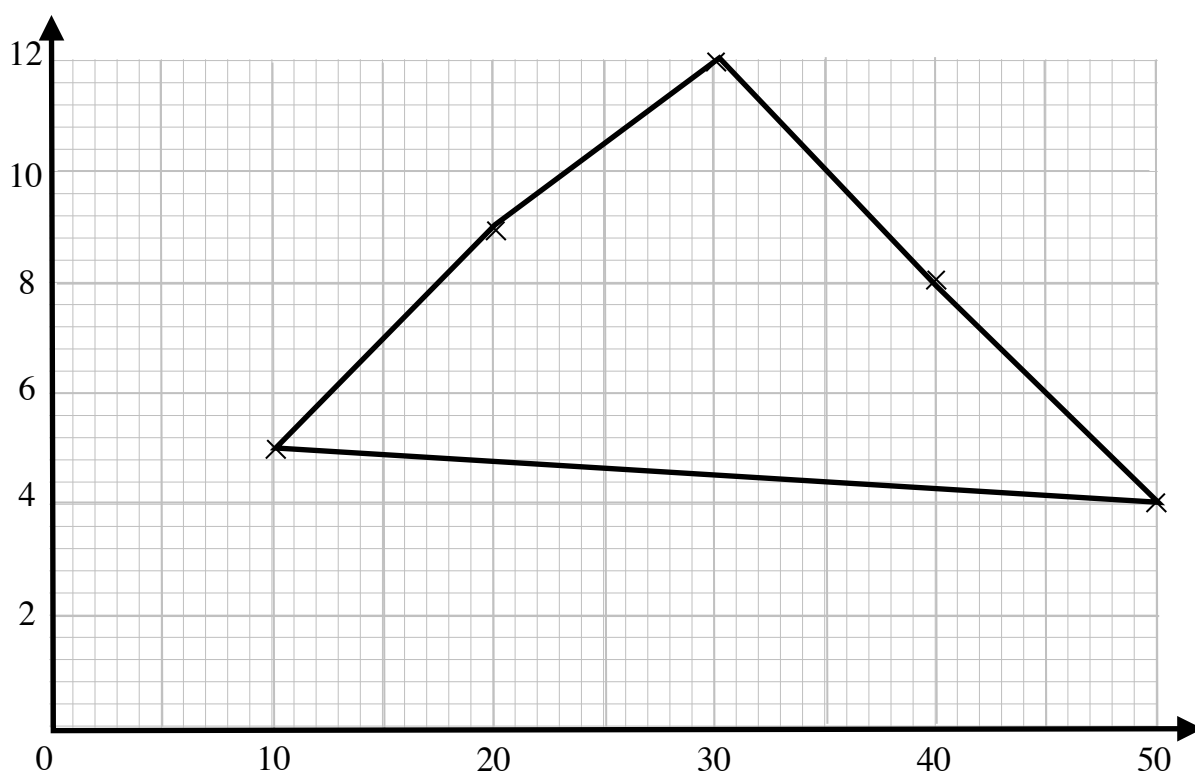
Draw a frequency polygon for this data.



(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. Has not used mid points

2. Last point and first point should not be connected.

(Total for Question 4 is 2 marks)