

## Frequency Polygons Past Paper Questions



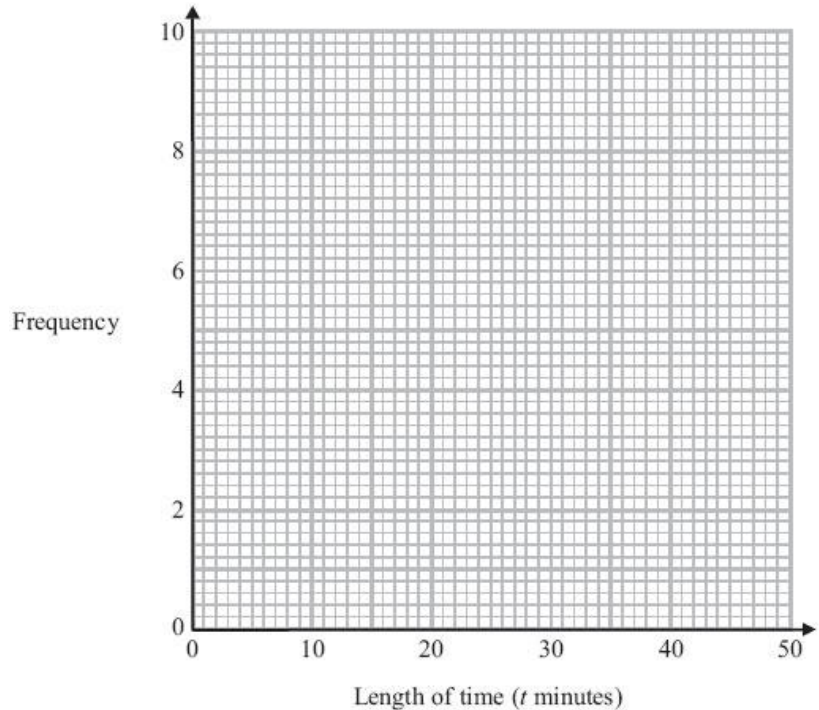
**Q1.**

Helen went on 35 flights in a hot air balloon last year.

The table gives some information about the length of time,  $t$  minutes, of each flight.

On the grid below, draw a frequency polygon for this information.

Length of time ( $t$ minutes)	Frequency
$0 < t \leq 10$	6
$10 < t \leq 20$	9
$20 < t \leq 30$	8
$30 < t \leq 40$	7
$40 < t \leq 50$	5



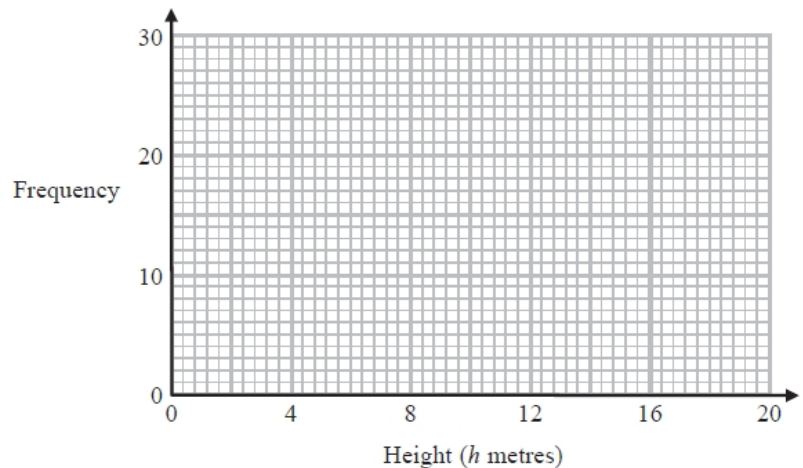
(Total for Question is 2 marks)

**Q2.**

The table shows information about the heights of 50 trees.

Draw a frequency polygon for the information in the table.

Height ( $h$ metres)	Frequency
$0 < h \leq 4$	8
$4 < h \leq 8$	21
$8 < h \leq 12$	12
$12 < h \leq 16$	7
$16 < h \leq 20$	2



(Total for question = 2 marks)

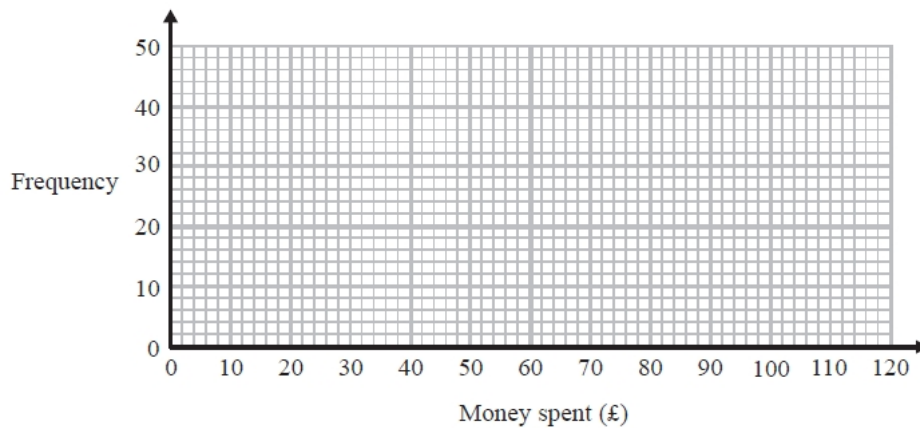


**Q3.**

The table gives information about the money, £ $A$ , some people spent on an internet site one day.

Money spent (£ $A$ )	Frequency
$0 < A \leq 20$	10
$20 < A \leq 40$	15
$40 < A \leq 60$	25
$60 < A \leq 80$	40
$80 < A \leq 100$	6

(a) On the grid, draw a frequency polygon for this information.



(2)

(b) Write down the modal class interval.

.....

(1)

**(Total for question = 3 marks)**



**Q4.**

The table shows information about the heights of 80 children.

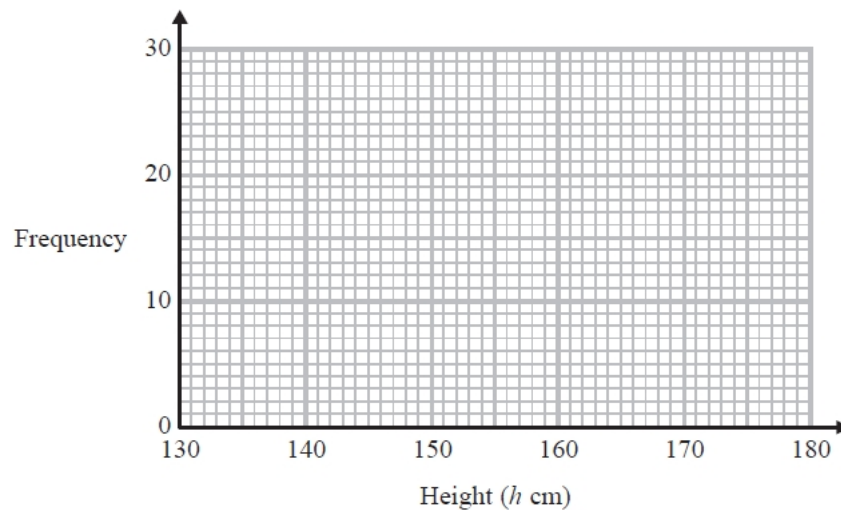
Height ( $h$ cm)	Frequency
$130 < h \leq 140$	4
$140 < h \leq 150$	11
$150 < h \leq 160$	24
$160 < h \leq 170$	22
$170 < h \leq 180$	19

(a) Find the class interval that contains the median.

.....

(1)

(b) Draw a frequency polygon for the information in the table.



(2)

**(Total for question = 3 marks)**

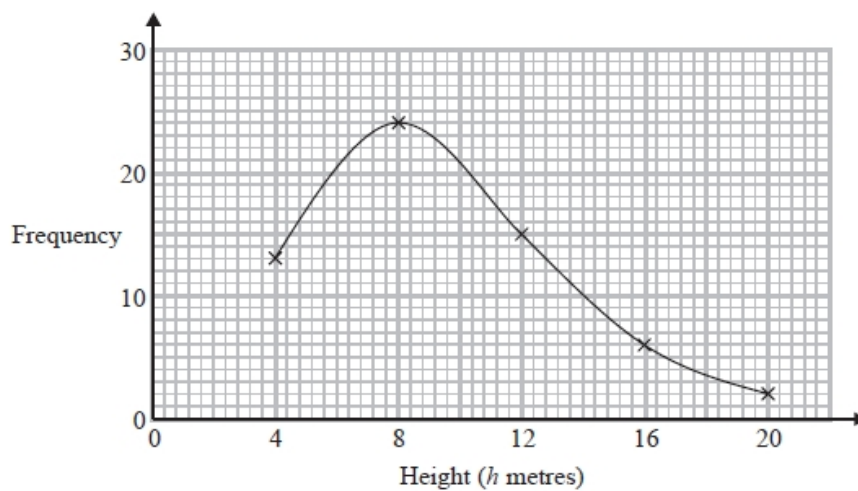


Q5.

The table shows information about the heights of 60 trees.

Height ( $h$ metres)	Frequency
$0 < h \leq 4$	13
$4 < h \leq 8$	24
$8 < h \leq 12$	15
$12 < h \leq 16$	6
$16 < h \leq 20$	2

Jacob drew this frequency polygon for the information in the table.  
The frequency polygon is **not** correct.



Write down **two** things that are wrong with the frequency polygon.

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

(Total for question = 2 marks)

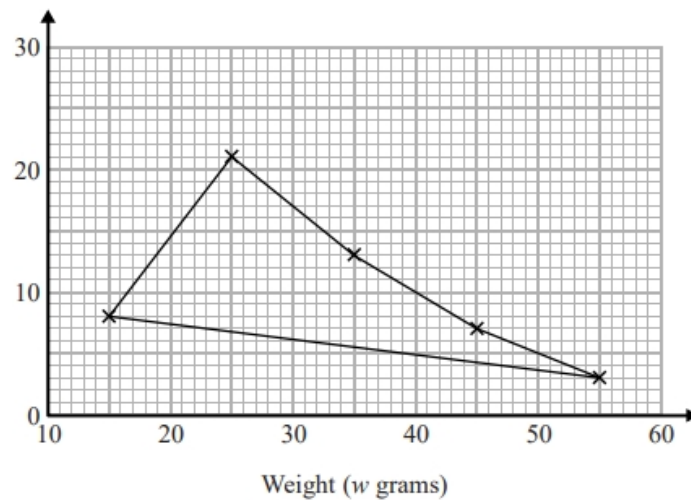


Q6.

The table shows some information about the weights of 50 potatoes.

Weight ( $w$ grams)	Frequency
$10 < w \leq 20$	6
$20 < w \leq 30$	21
$30 < w \leq 40$	13
$40 < w \leq 50$	7
$50 < w \leq 60$	3

Iveta drew this frequency polygon for the information in the table.  
The frequency polygon is **not** fully correct.



Write down **two** things that are wrong with the frequency polygon.

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

(Total for question = 2 marks)

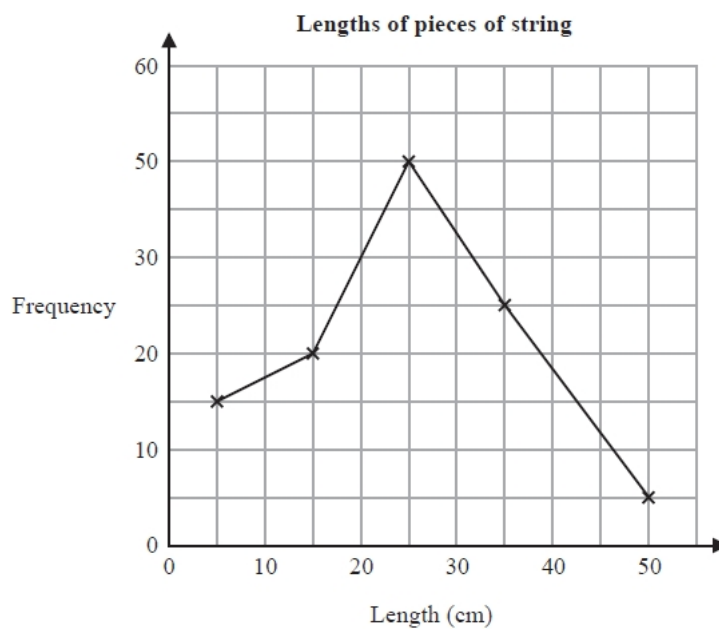


Q7.

The table gives information about the lengths, in cm, of some pieces of string.

Length ( $t$ cm)	Frequency
$0 < t \leq 10$	15
$10 < t \leq 20$	20
$20 < t \leq 30$	50
$30 < t \leq 40$	25
$40 < t \leq 50$	5

Amos draws a frequency polygon for the information in the table.



Write down **two** mistakes that Amos has made.

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

(Total for question = 2 marks)

Q8.



The table shows information about the heights of 80 plants.

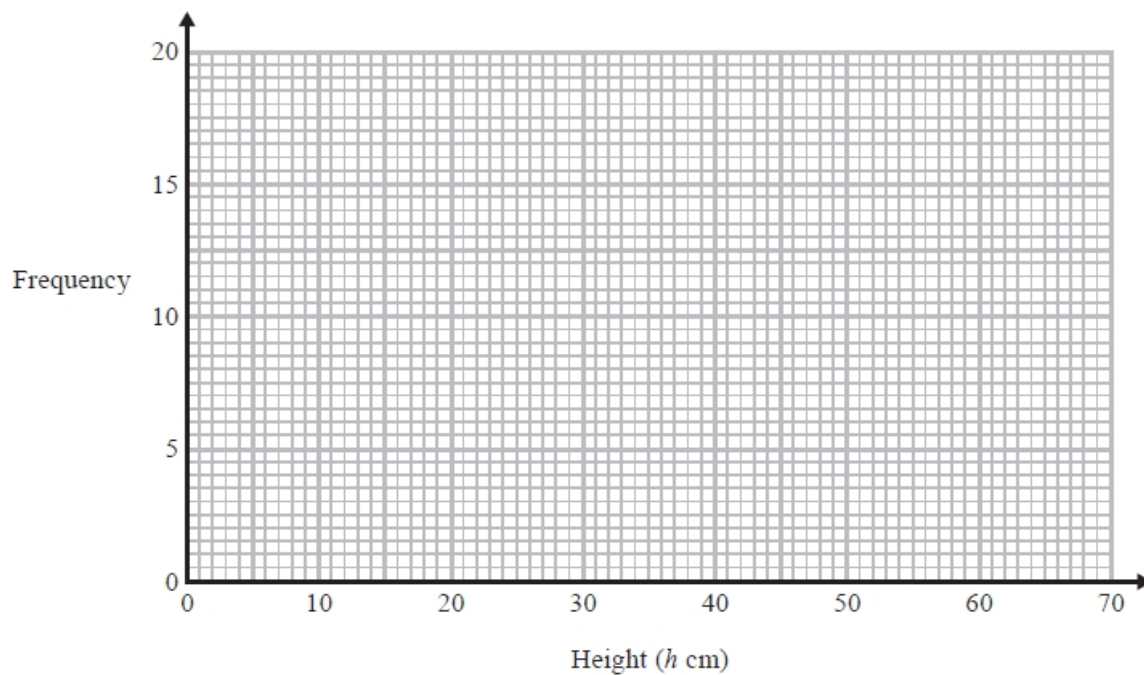
Height ( $h$ cm)	Frequency
$10 < h \leq 20$	7
$20 < h \leq 30$	13
$30 < h \leq 40$	14
$40 < h \leq 50$	12
$50 < h \leq 60$	16
$60 < h \leq 70$	18

(a) Find the class interval that contains the median.

.....

(1)

(b) On the grid, draw a frequency polygon for the information in the table.



(2)

(Total for question = 3 marks)