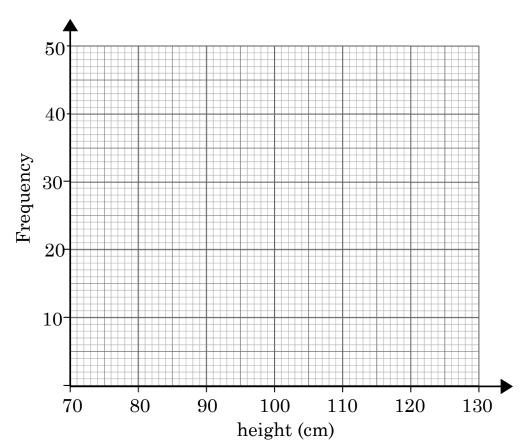
Frequency Polygons Exam Practice



Q1. The table below shows the height of some plants measured in cm.

Height of plant (to nearest cm)	Frequency
70 ≤ h < 80	8
$80 \le h \le 90$	27
$90 \le h < 100$	45
$100 \le h \le 110$	30
$110 \le h < 120$	13

Draw a frequency polygon on the grid below



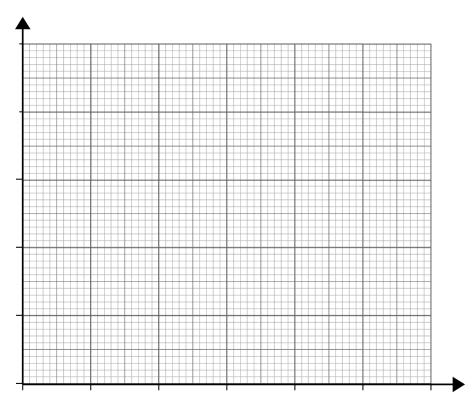
Answer:		
	10	`

Q2. The table below shows the weight of some dogs measured in kg.

H	
7	-

Weight of a dog (Kg)	Frequency
$10 \le w \le 30$	40
$30 \le w < 50$	70
$50 \le w < 70$	115
$70 \le w < 90$	165
$90 \le w < 110$	20

Draw a frequency polygon on the grid below

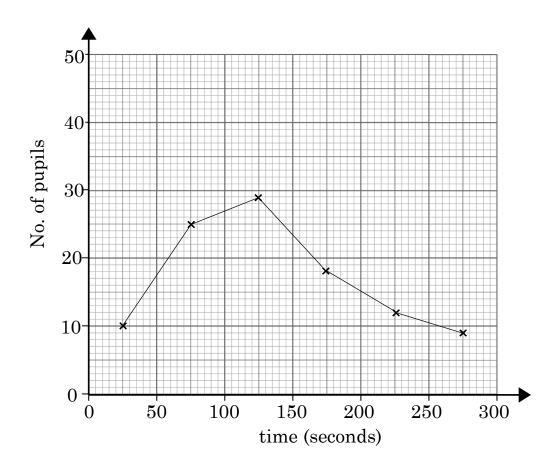


Answer:		

(3 marks)

Q3. The frequency polygon below shows the time in seconds for some pupils to complete a puzzle.





Estimate the mean time taken by the pupils to complete the puzzle.

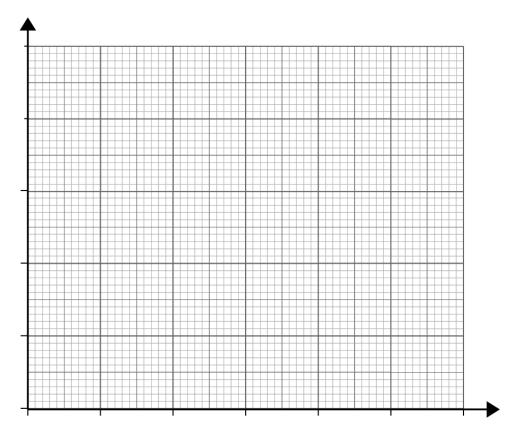
(4 marks)

Q4. The table below shows the height of some people measured in cm.



Height (cm)	Cumulative Frequency
150 ≤ h < 160	9
$160 \le h < 170$	24
$170 \le h < 180$	86
$180 \le h < 190$	130
190 ≤ h < 200	155

Draw a frequency polygon on the grid below,

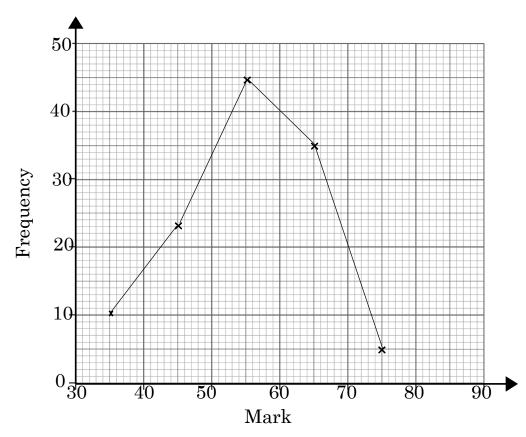


Answer:____

(4 marks)



Q5. The frequency polygon shows the marks scored by some boys in a history exam.



On the same grid, draw a frequency polygon for the data below, which shows the results of the girls in the same history test.

Mark	Frequency
$30 \le m < 40$	21
$40 \le m < 50$	34
$50 \le m \le 60$	41
$60 \le m < 70$	19
70 < m < 80	2

Answer:	
	(2 marks)

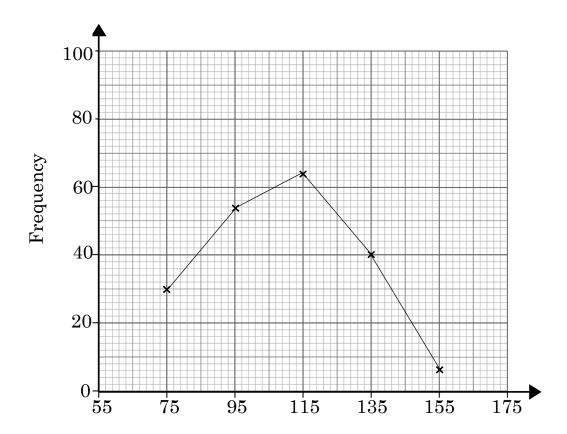
Compare the scores of the boys and the girls scores in the history exam.

$\operatorname{Answer}:$	
_	(2 marks)



Q6. Fiona has collected data on the weight of pupils in year 8 at her school. She uses it to draw the frequency polygon shown below:

Weight of pupils in year 8 (pounds)	Frequency
$75 \le w < 95$	30
$95 \le w < 115$	54
$115 \le w < 135$	62
$135 \le w < 155$	40
$155 \le w < 175$	6



Identify three errors which she has made.

Answer:		
Answer		

(3 marks)

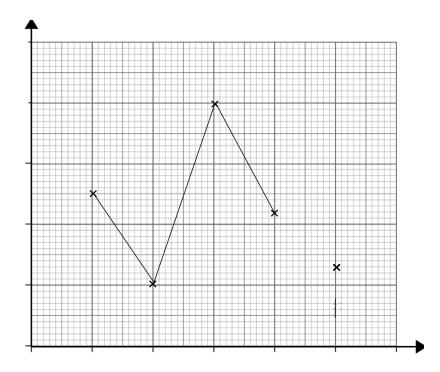


- Q7. The amount of rainfall during a period of time was recorded in mm.
 - a) Complete both the frequency table and the frequency polygon using the information, labelling both axes.

Amount of rainfall (mm)	Frequency
$10 \le r \le 30$	35
$30 \le r < 50$	10
	40
$70 \le r < 90$	22
$90 \le r < 110$	

Answer:

(4 marks)



b) Write down the modal class.

Answer:_____(1 mark)

c) A day is selected at random. What is the probability that there was more than 30mm of rainfall?

Answer:____

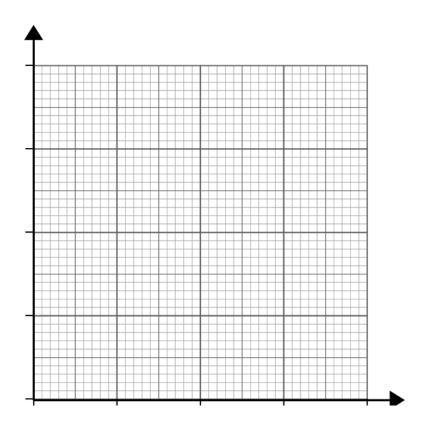
(1 mark)



Q8. Over a period of time, the maximum temperature during a day is recorded. A frequency polygon for the following incomplete data set is to be drawn.

Max Temperature (°C)	Frequency
$14 \le w < 18$	8
$18 \le w \le 22$	14
$22 \le w \le 26$	10
$26 \le w < 30$	

Given that the mean is 21.8, work out the missing frequency value and plot the frequency chart on the graph below:



Answer.			
Answer:			

(5 marks)