Name: _____

GCSE (1 - 9)

Frequency Polygons

Instructions

- Use black ink or ball-point pen.
- Answer all Questions.
- Answer the Questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.

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.

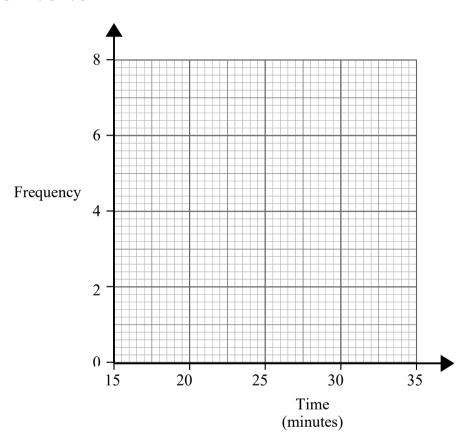
Advice

- 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

1 The table below gives information about the time taken for 20 people to run 5 km.

Time (minutes)	Frequency
15 < t ≤ 20	3
20 < t ≤ 25	6
25 < t ≤ 30	7
30 < t ≤ 35	4

Draw a frequency polygon to show this information.

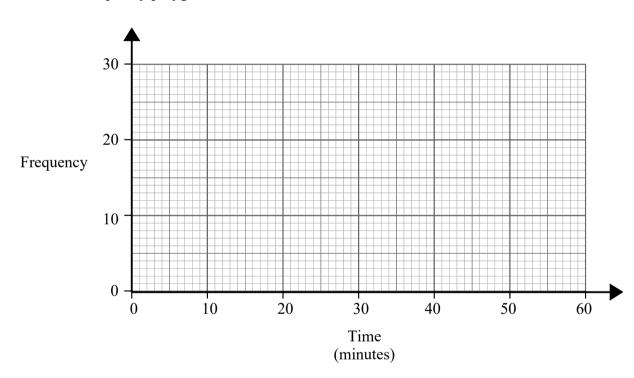


(Total for Question 1 is 2 marks)

2 The frequency table shows the time taken for 100 people to travel to an event.

Time (minutes)	Frequency
$0 < t \leqslant 10$	14
10 < t ≤ 20	16
20 < t ≤ 30	23
30 < t ≤ 40	29
40 < t ≤ 50	12
50 < t ≤ 60	6

Draw a frequency polygon to show this information.

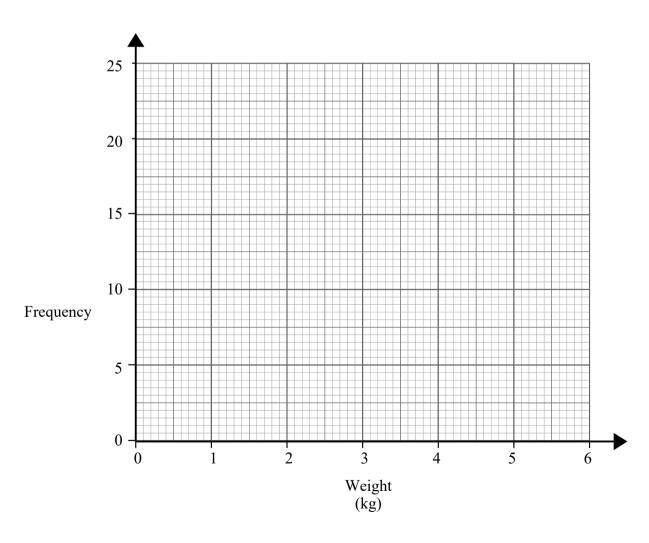


(Total for Question 2 is 2 marks)

3 The frequency table shows the weight, in kg, of some cats.

Weight (kg)	Frequency
$0 < w \leqslant 1$	8
1 < w ≤ 2	10
2 < w ≤ 3	21
3 < w ≤ 4	19
4 < w ≤ 5	13
5 < w ≤ 6	9

Draw a frequency polygon to show this information.

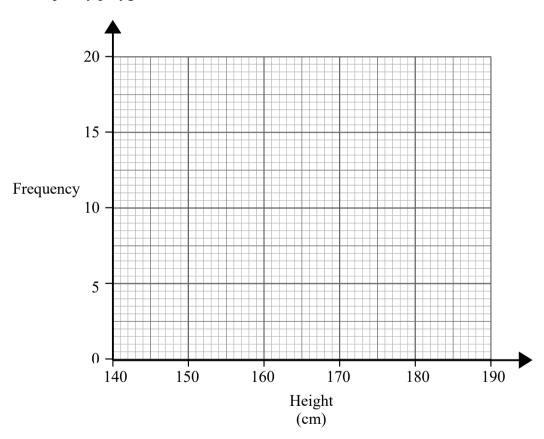


(Total for Question 3 is 2 marks)

4 The frequency table shows the heights, in cm, of some tomato plants.

Height (cm)	Frequency
140 < h ≤ 150	7
150 < h ≤ 160	10
160 < h ≤ 170	15
170 < h ≤ 180	19
180 < h ≤ 190	9

Draw a frequency polygon to show this information.

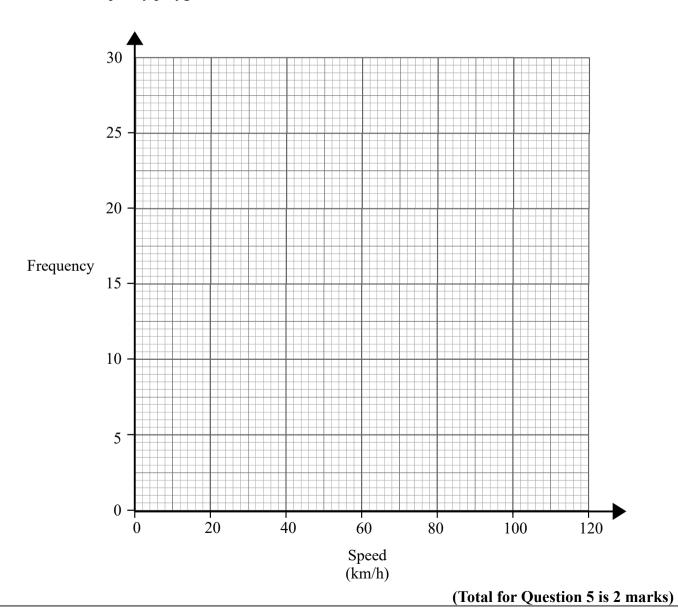


(Total for Question 4 is 2 marks)

5 The frequency table shows the speeds of 100 cars.

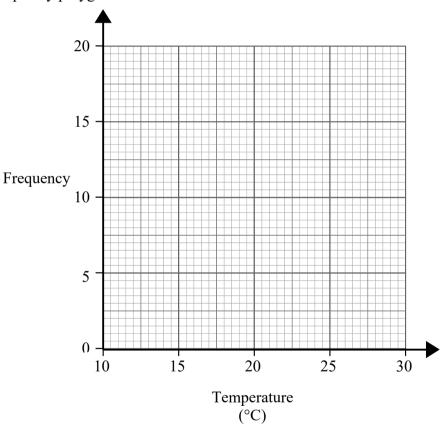
Speed (km/h)	Frequency
$0 < s \leqslant 20$	6
$20 < s \leqslant 40$	17
40 < s ≤ 60	29
$60 < s \le 80$	25
80 < s ≤ 100	20
100 < s ≤ 120	3

Draw a frequency polygon to show this information.



Temperature (°C)	Frequency
10 < t ≤ 14	1
14 < t ≤ 18	4
18 < t ≤ 22	16
22 < t ≤ 26	7
26 < t ≤ 30	2

Draw a frequency polygon to show this information.

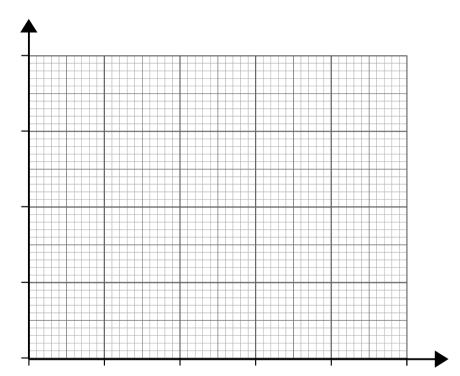


(Total for Question 6 is 2 marks)

7 The frequency table shows the heights, in cm, of some people.

Height (cm)	Frequency
140 < h ≤ 150	7
150 < h ≤ 160	25
160 < h ≤ 170	34
170 < h ≤ 180	29
180 < h ≤ 190	16

Draw a frequency polygon to show this information.



(Total for Question 7 is 4 marks)