

Name: _____

ASM Tuition Academy
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 you're 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.

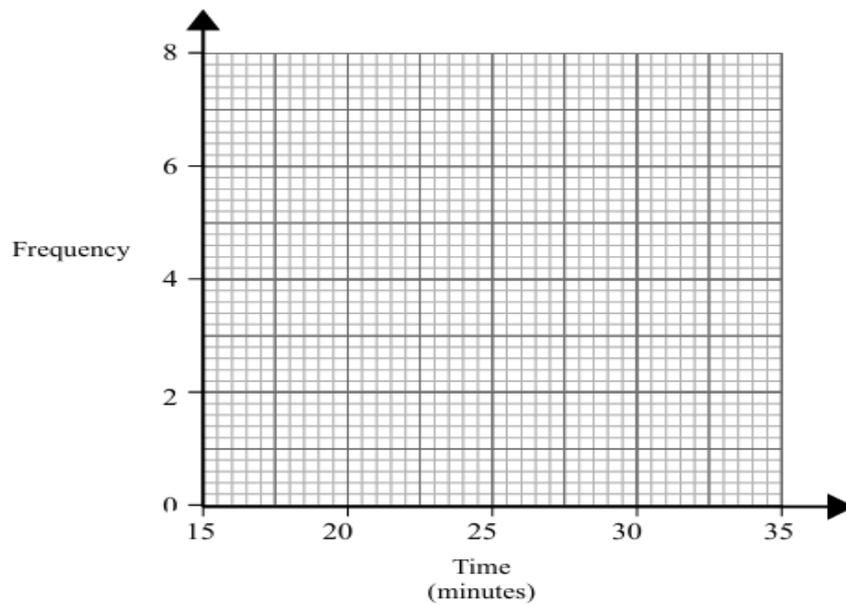
Advice:

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

Q1. The table below gives information about the time taken for 25 people to run 10 km.

Time (minutes)	Frequency
$15 \leq t \leq 25$	10
$25 \leq t \leq 35$	3
$35 \leq t \leq 45$	5
$45 \leq t \leq 55$	7

Draw a frequency polygon to show this information.

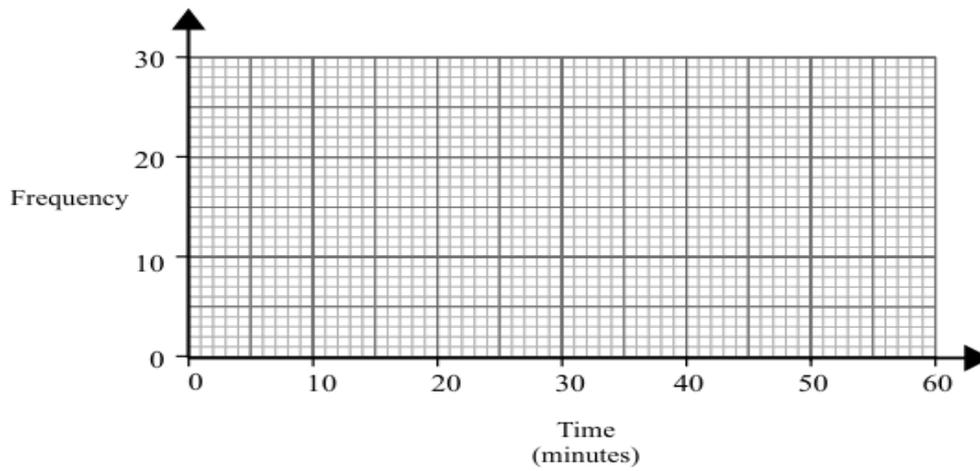


(Total for question 1 is 2 marks)

Q2. The frequency table shows the time taken for 80 people to travel to an event.

Time (minutes)	Frequency
$0 \leq t \leq 15$	25
$15 \leq t \leq 30$	17
$30 \leq t \leq 45$	8
$45 \leq t \leq 60$	30

Draw a frequency polygon to show this information.

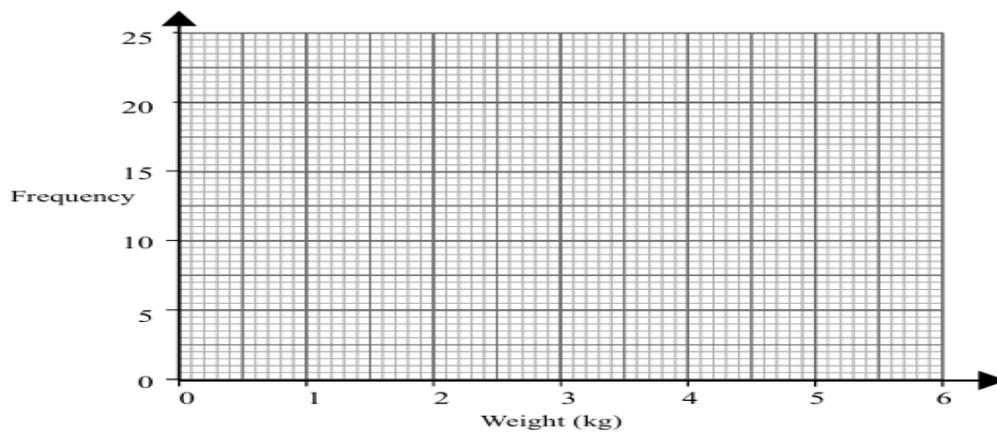


(Total for question 2 is 2 marks)

Q3. The frequency table shows the weight, in kg of flour bags.

Weight (kg)	Frequency
$0 \leq W \leq 2$	10
$2 \leq W \leq 4$	15
$4 \leq W \leq 6$	25

Draw a frequency polygon to show this information.

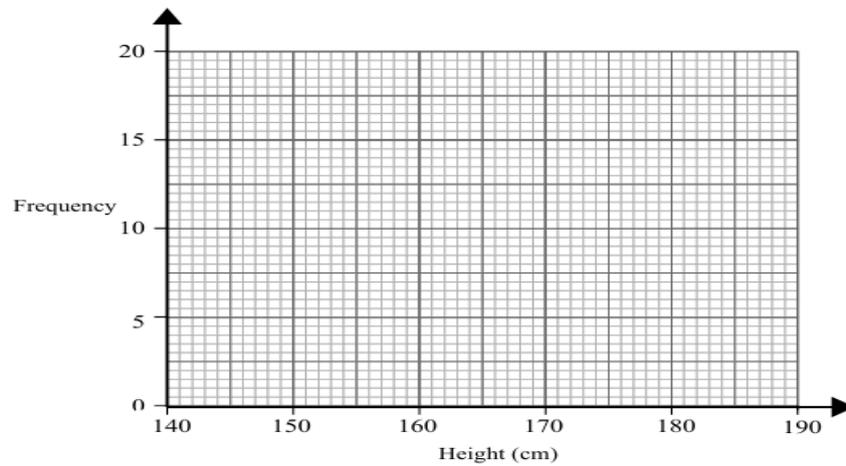


(Total for question 3 is 2 marks)

Q4. The frequency table shows the length, in cm, of athletes.

Height (cm)	Frequency
$140 \leq h \leq 150$	3
$150 \leq h \leq 160$	12
$160 \leq h \leq 170$	20
$170 \leq h \leq 180$	8
$180 \leq h \leq 190$	7

Draw a frequency polygon to show this information.

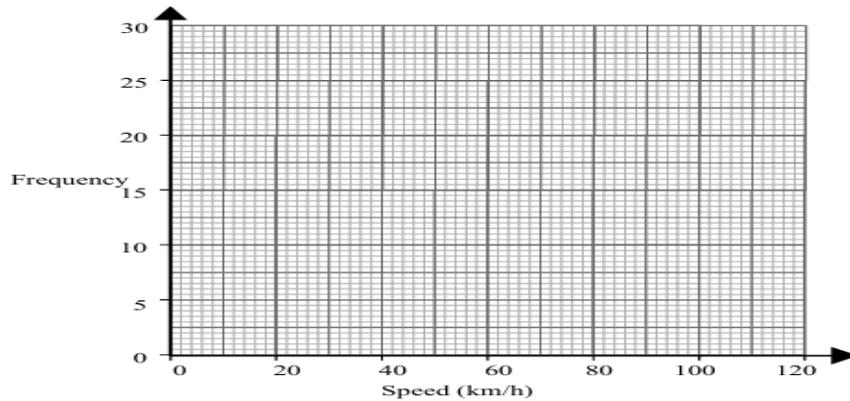


(Total for question 4 is 2 mark)

Q5. The frequency table shows the speeds of 50 sports cars.

Speed (km/s)	Frequency
$0 \leq s \leq 20$	10
$20 \leq s \leq 40$	8
$40 \leq s \leq 60$	15
$60 \leq s \leq 80$	4
$80 \leq s \leq 100$	9
$100 \leq s \leq 120$	4

Draw a frequency polygon to show this information.

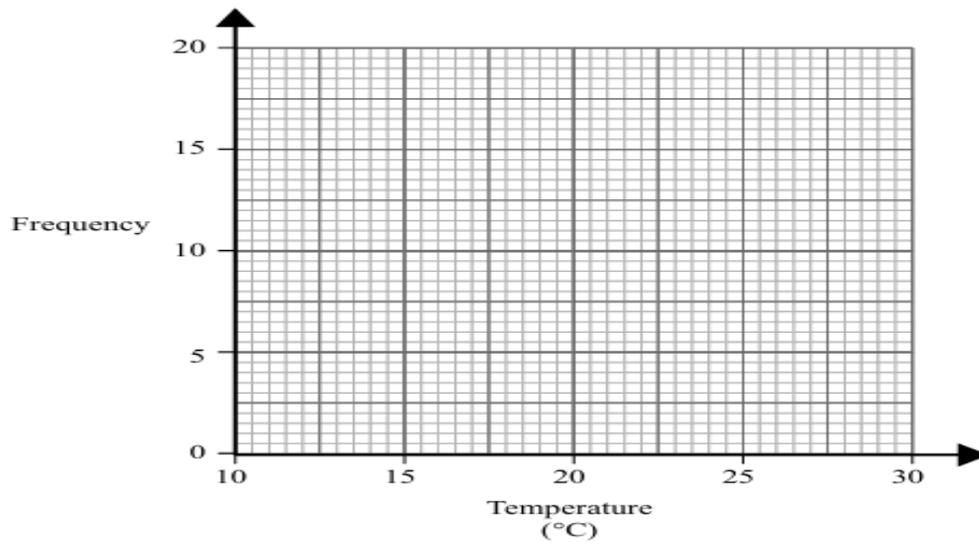


(Total for question 5 is 2 marks)

Q6. The frequency table shows the temperature, in degrees, of 15 days.

Temperature ($^{\circ}\text{C}$)	Frequency
$10 \leq t \leq 15$	2
$15 \leq t \leq 20$	6
$20 \leq t \leq 25$	5
$25 \leq t \leq 30$	2

Draw a frequency polygon to show this information.

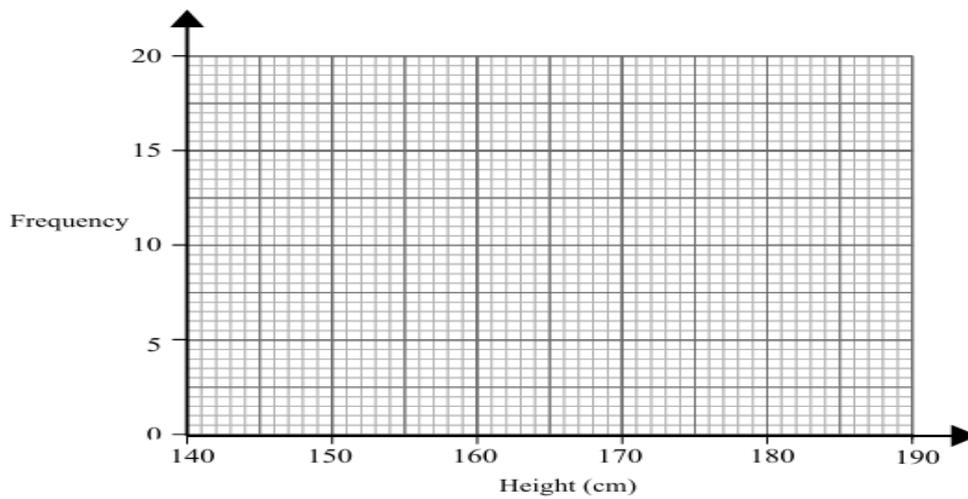


(Total for question 6 is 2 marks)

Q7. The frequency table shows the heights, in cm, of some people.

Height (cm)	Frequency
$140 \leq h \leq 150$	8
$150 \leq h \leq 160$	4
$160 \leq h \leq 170$	12
$170 \leq h \leq 180$	15
$180 \leq h \leq 190$	10

Draw a frequency polygon to show this information.



(Total for question 7 is 4 marks)