

AQA, OCR, Edexcel

GCSE

GCSE Maths

Histograms Questions

Name:

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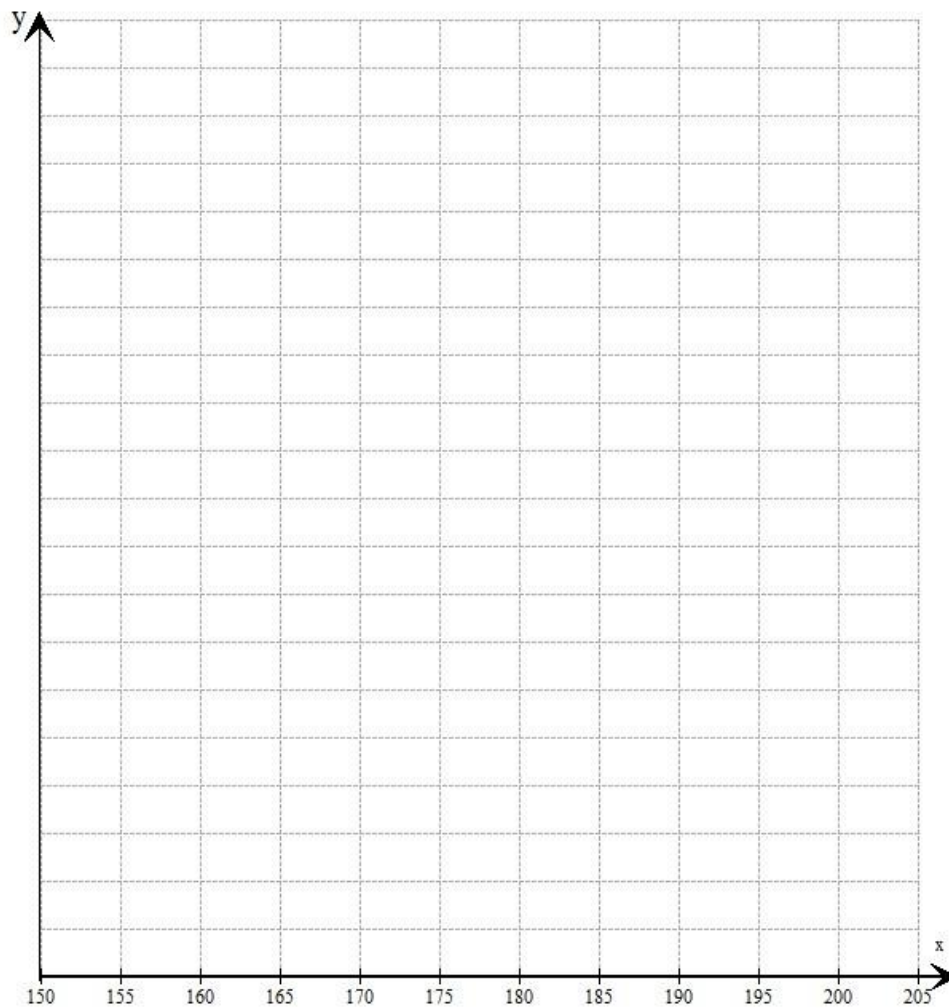
Total Marks: /12

Histograms

1. The table gives information about heights of pupils in year 12 of college.

| Height (cm) | Frequency |
|----------------------------|-----------|
| $150 < \text{cm} \leq 155$ | 10 |
| $155 < \text{cm} \leq 165$ | 25 |
| $165 < \text{cm} \leq 170$ | 12 |
| $170 < \text{cm} \leq 180$ | 33 |
| $180 < \text{cm} \leq 190$ | 22 |
| $190 < \text{cm} \leq 205$ | 5 |

- a. On the grid, draw a histogram for the information in the table.



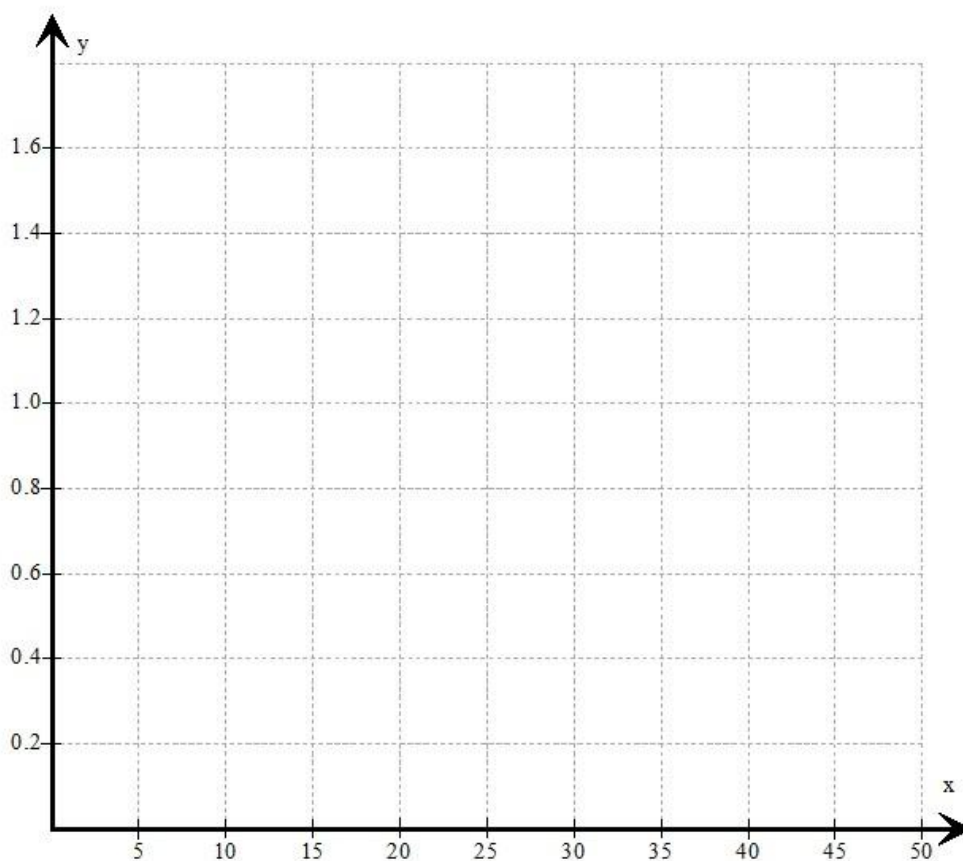
- b. Use your histogram to estimate the number of students below 162cm.

(5 Marks)

2. The table gives information about travel times of pupils getting to school.

| Time (minutes)(m) | Frequency |
|-------------------|-----------|
| $0 < m \leq 5$ | 5 |
| $5 < m \leq 10$ | 9 |
| $10 < m \leq 15$ | 10 |
| $15 < m \leq 20$ | 15 |
| $20 < m \leq 30$ | 8 |
| $30 < t \leq 45$ | 9 |

a. On the grid, draw a histogram for the information in the table.



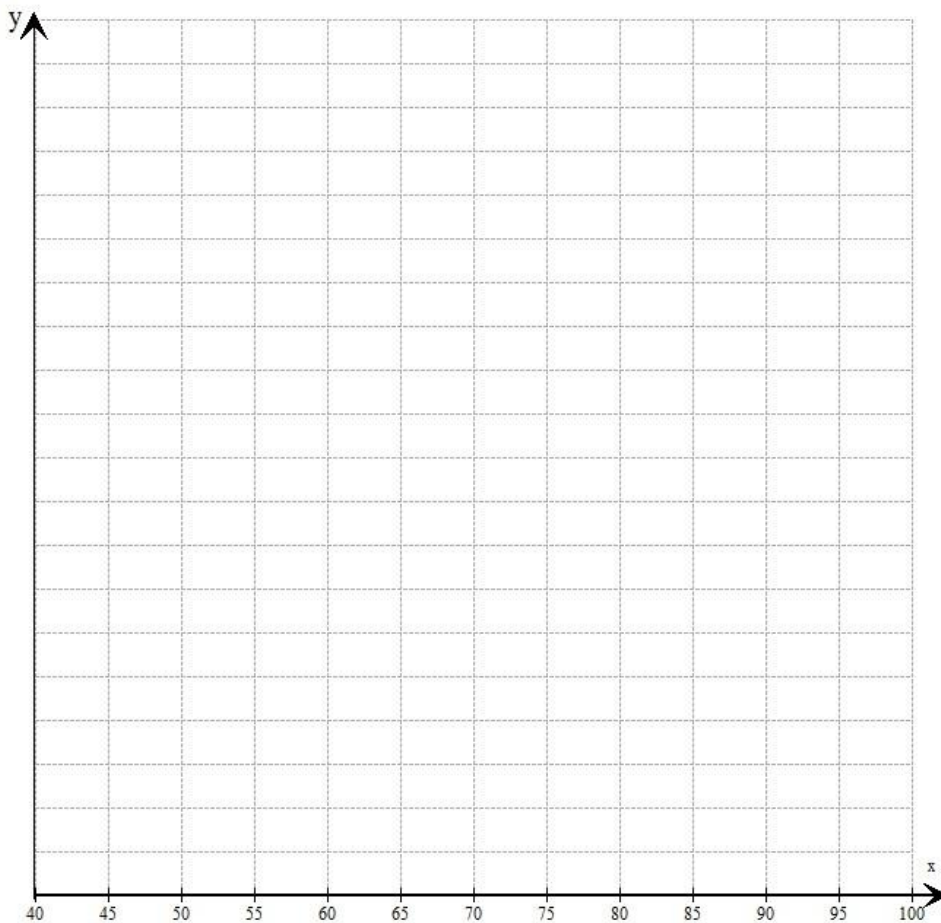
b. Use your histogram to calculate the number of students who take more than 29 minutes to get to school.

(5 Marks)

3. The table below shows the results of a spelling test.

| Result percentage (%) | Frequency |
|-----------------------|-----------|
| $40 < m \leq 50$ | 3 |
| $50 < m \leq 60$ | 5 |
| $60 < m \leq 70$ | 8 |
| $70 < m \leq 80$ | 16 |
| $80 < m \leq 85$ | 4 |
| $85 < t \leq 100$ | 2 |

a. On the grid, draw a histogram for the information in the table.



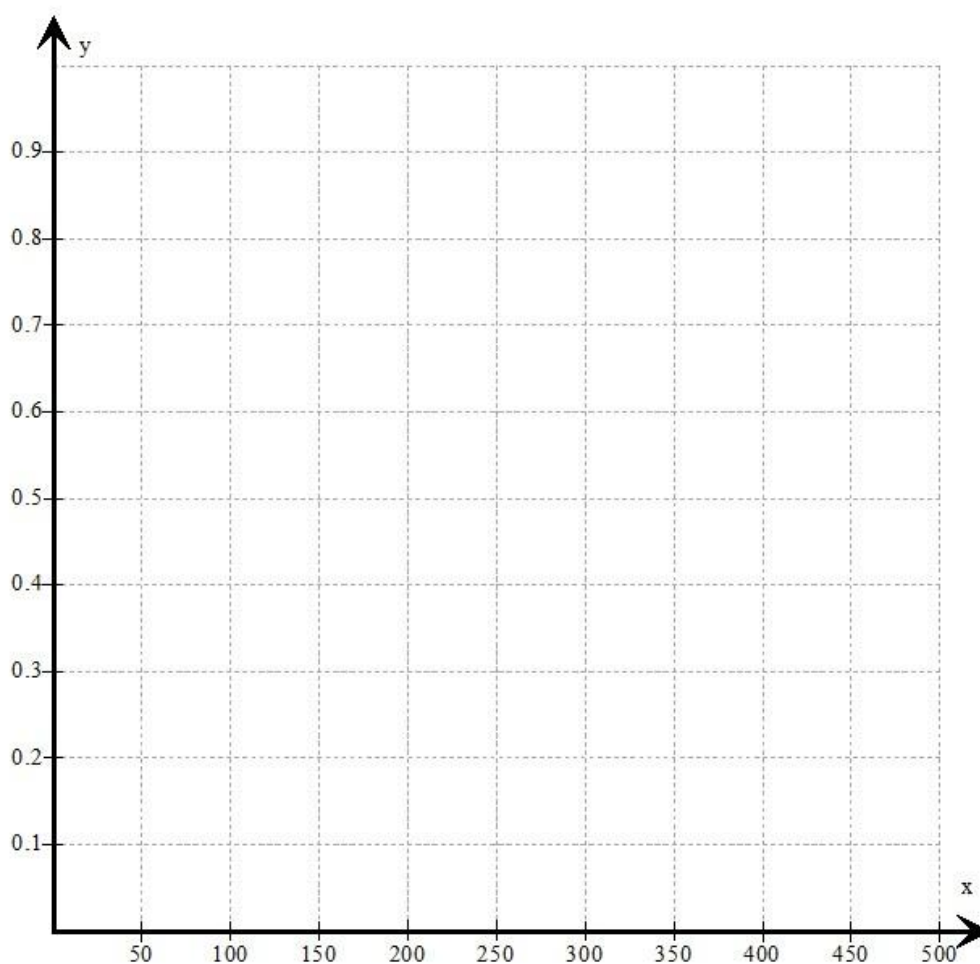
b. In the last test $\frac{2}{3}$ of all students scored higher than 65% in the spelling test. Did the students do better or worse in this most recent test.

(7 Marks)

4. The table shows the total spent by shoppers during the Christmas period.

| Total spent (£) | Frequency |
|--------------------|-----------|
| $0 < £ \leq 100$ | 3 |
| $100 < £ \leq 200$ | 9 |
| $200 < £ \leq 250$ | 11 |
| $250 < £ \leq 350$ | 16 |
| $350 < m \leq 400$ | 22 |
| $400 < t \leq 500$ | 9 |

a. On the grid, draw a histogram for the information in the table.



b. Martial says that more than half the people spend more than £300, is he correct?

(5 Marks)