

AQA, OCR, Edexcel

GCSE

GCSE Maths

Histograms Answers

Name:

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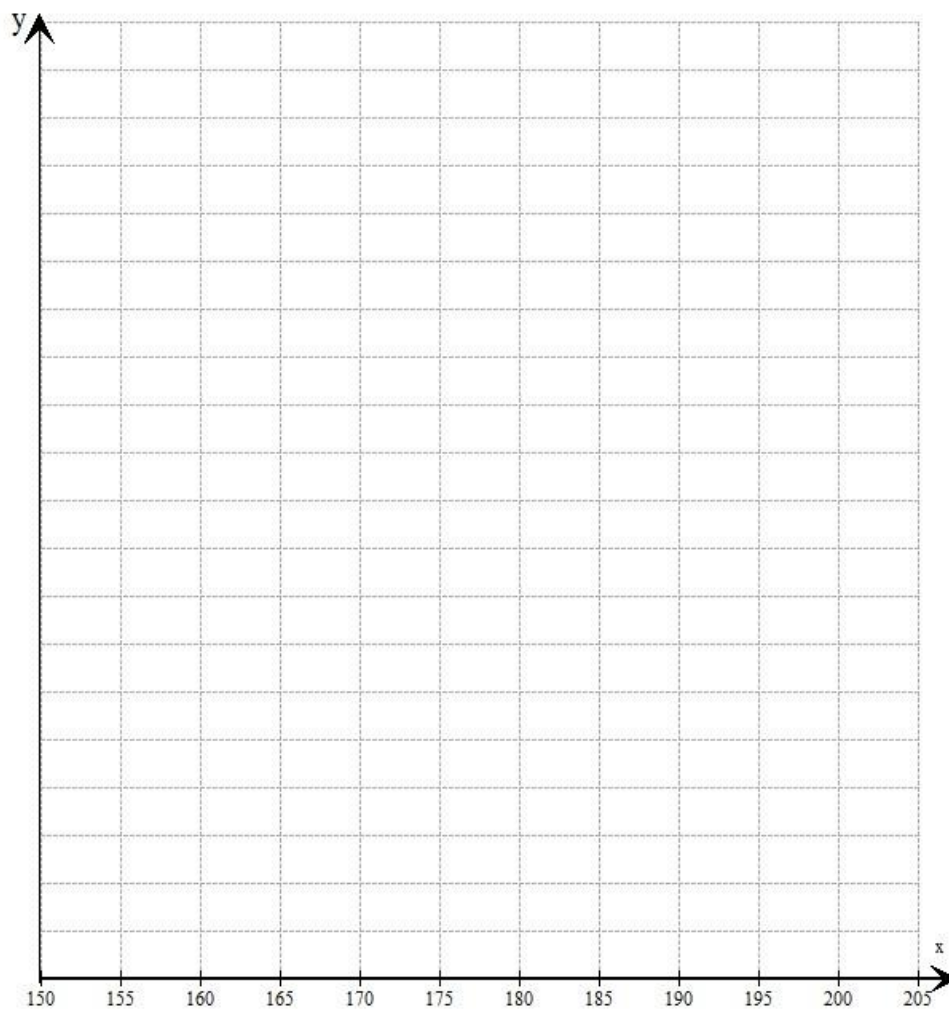
Total Marks: /12

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.

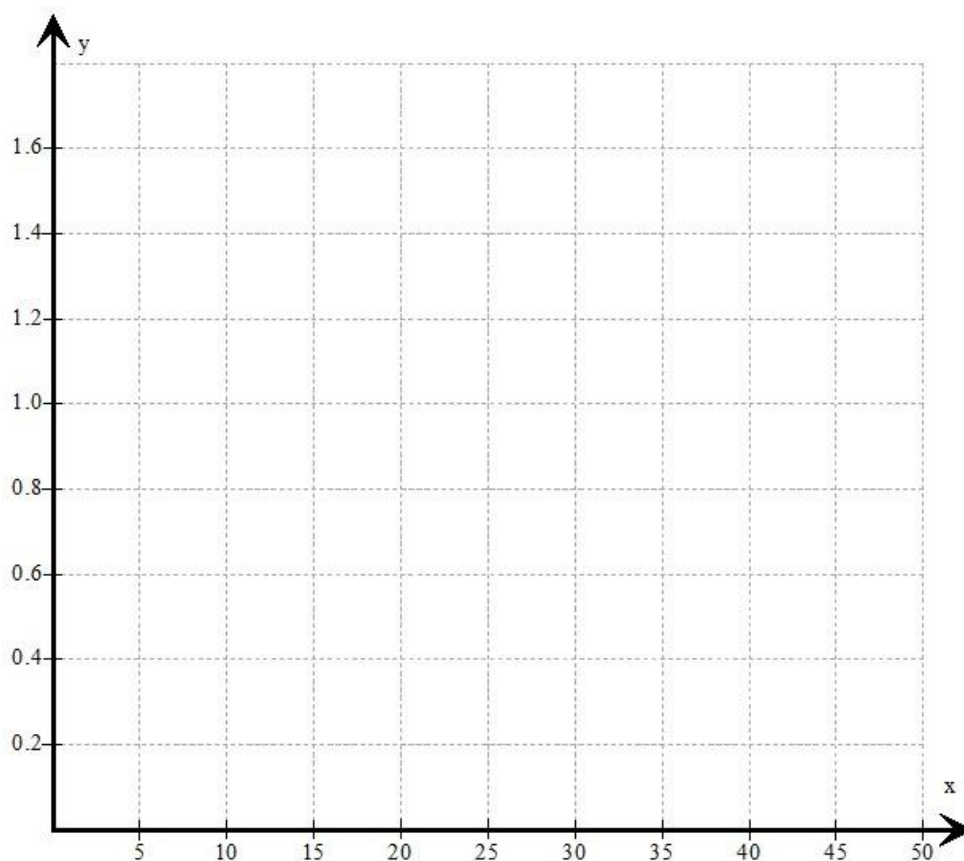
$\approx 26 - 28$

(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.

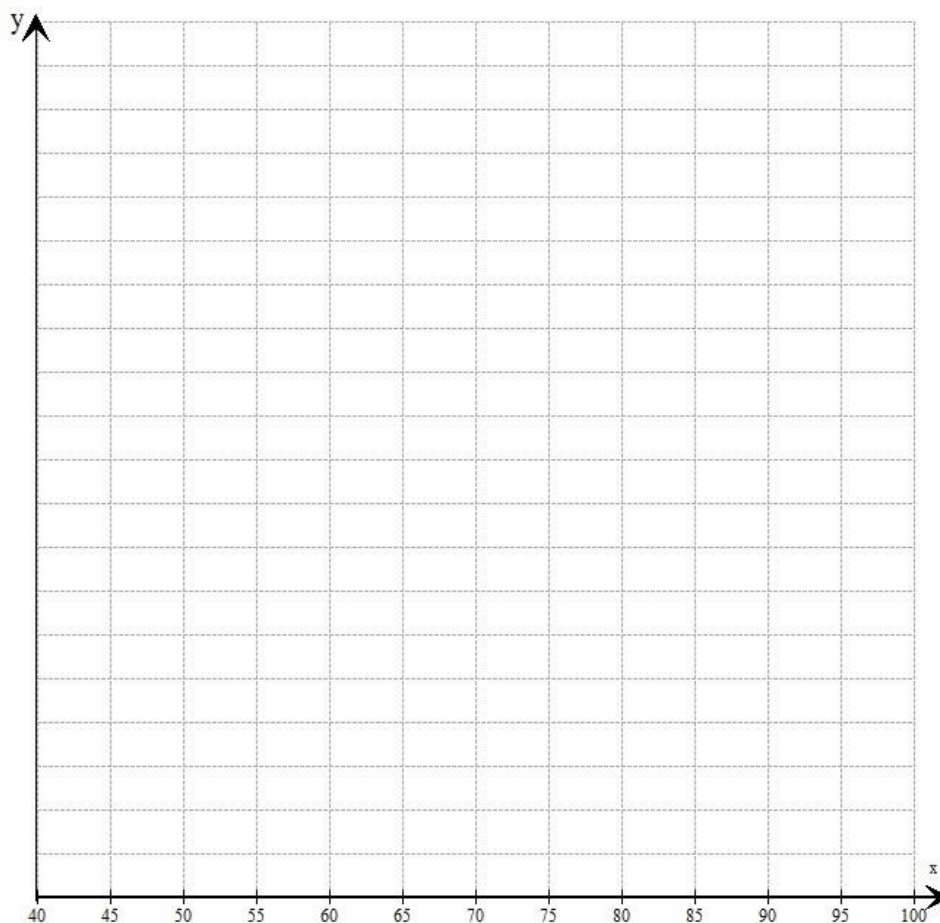
≈ 10

(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.

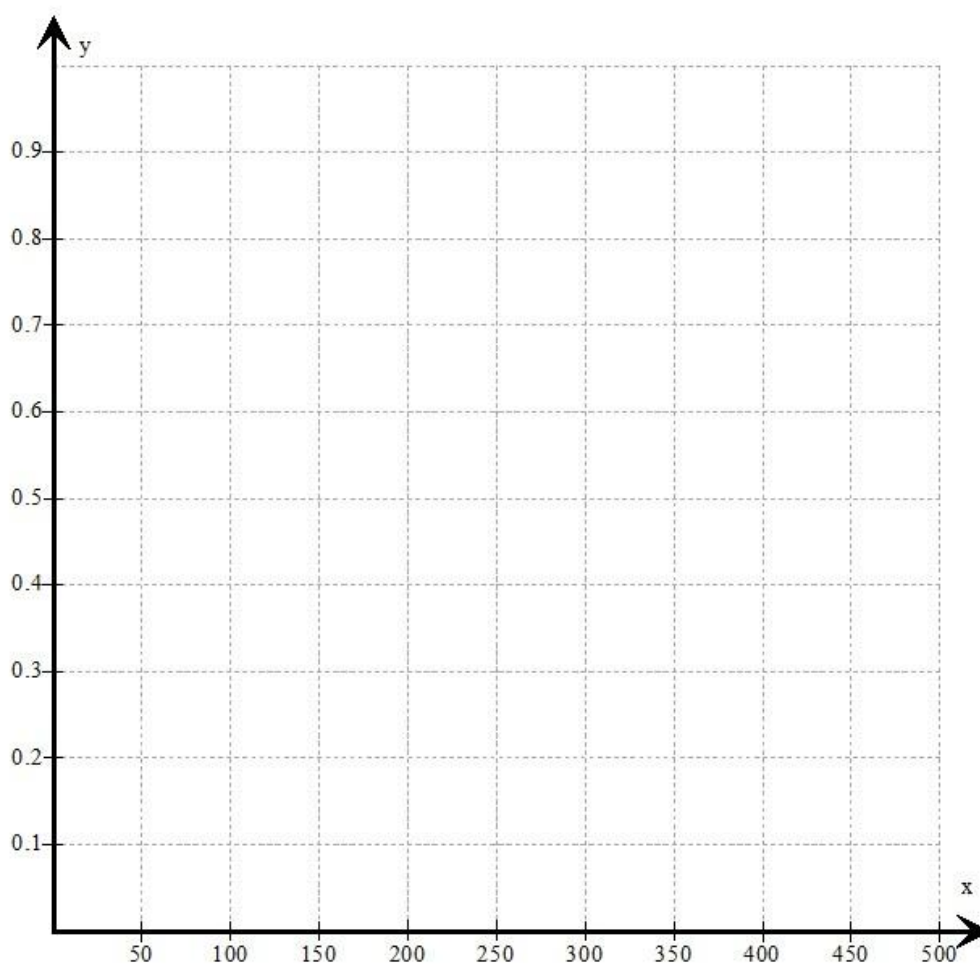
Better 68% of students scored higher then 65%

(7 Marks)

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

Total spent (£)	Frequency
$0 < \text{£} \leq 100$	3
$100 < \text{£} \leq 200$	9
$200 < \text{£} \leq 250$	11
$250 < \text{£} \leq 350$	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?

Yes, 39 people spend more then £300

(5 Marks)