

Displaying Data

Difficulty: Hard

Question Paper 1

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Statistics
Sub-Topic	Displaying Data
Paper	Paper 2
Difficulty	Hard
Booklet	Question Paper 1

Time allowed: 19 minutes

Score: /15

Percentage: /100

Grade Boundaries:

CIE IGCSE Maths (0580)

A*	A	B	C	D	E
>88%	76%	63%	51%	40%	30%

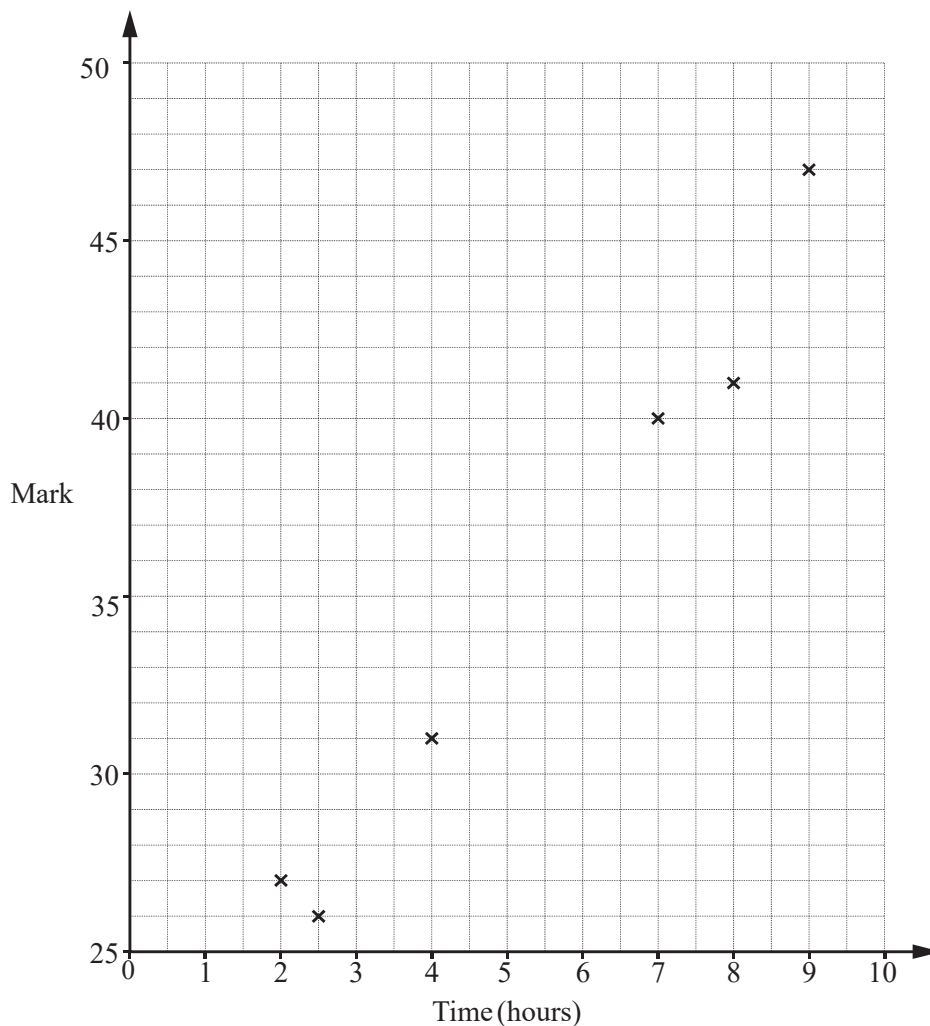
CIE IGCSE Maths (0980)

9	8	7	6	5	4	3
>94%	85%	77%	67%	57%	47%	35%

Question 1

Six students revise for a test.

The scatter diagram shows the time, in hours, each student spent revising and their mark in the test.



(a) The data for two more students is shown in the table.

Time (hours)	4.5	6.5
Mark	33	35

Plot these two points on the scatter diagram.

[1]

(b) What type of correlation is shown on the scatter diagram?

[1]

(c) Draw a line of best fit on the scatter diagram.

[1]

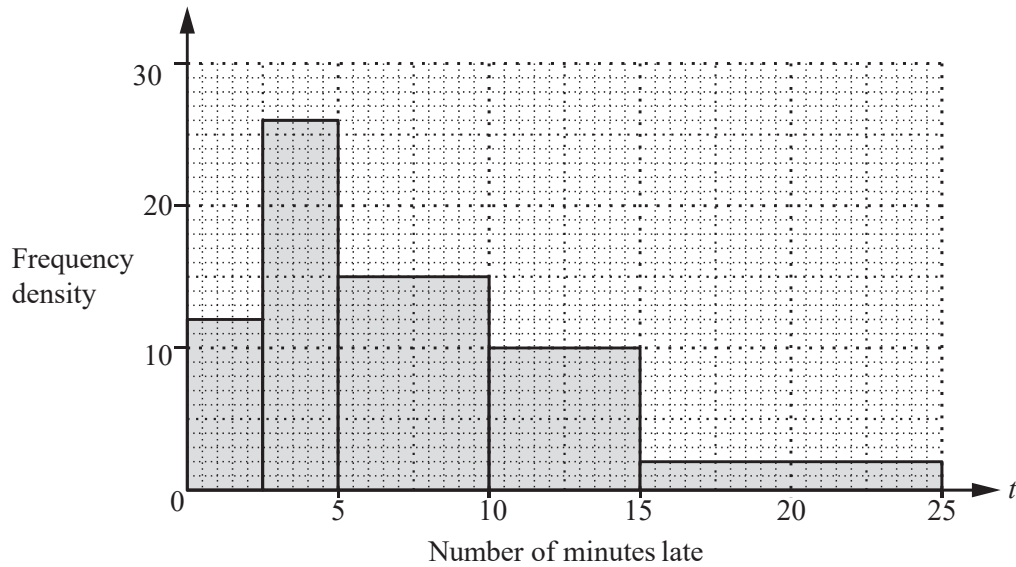
(d) Another student spent 5.5 hours revising.

Estimate a mark for this student.

[1]

Question 2

Deborah records the number of minutes late, t , for trains arriving at a station. The histogram shows this information.



(a) Find the number of trains that Deborah recorded.

[2]

(b) Calculate the percentage of the trains recorded that arrived more than 10 minutes late.

[2]

Question 3

Raj measures the height, h cm, of 70 plants.
The table shows the information.

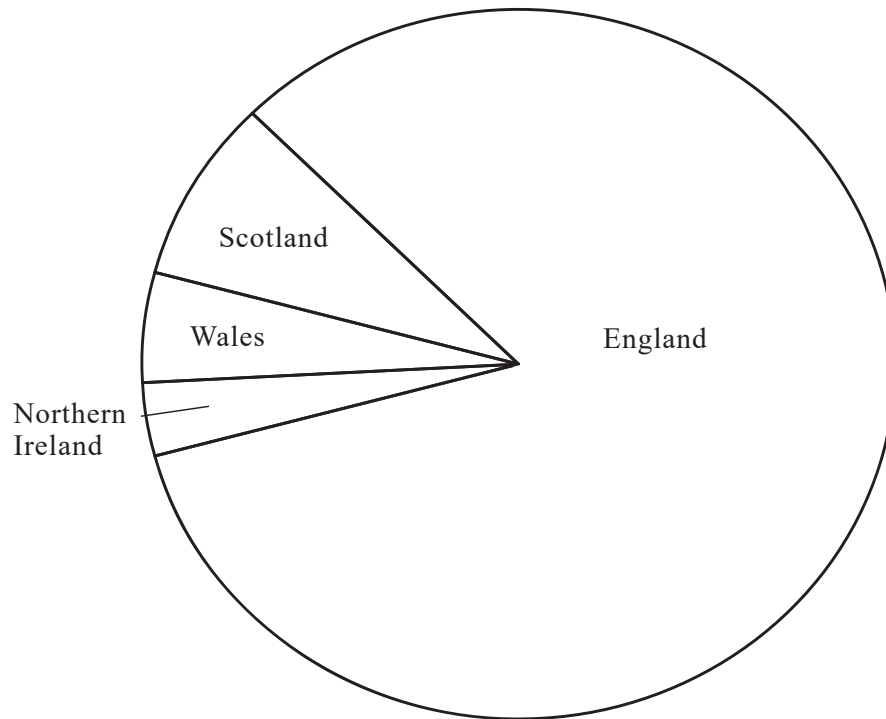
Height (h cm)	$10 < h \leq 20$	$20 < h \leq 40$	$40 < h \leq 50$	$50 < h \leq 60$	$60 < h \leq 90$
Frequency	7	15	27	13	8

Calculate an estimate of the mean height of the plants.

[4]

Question 4

The populations of the four countries of the United Kingdom, in the year 2000, are shown on the pie chart below.



Taking measurements from the pie chart, complete the table.

Country	Population (millions)
England	
Scotland	
Wales	
Northern Ireland	2

[3]