

Data (1)

Name:

LITERACY

Describe each of the key words below in less than 20 words.

Cumulative Frequency

Modal Class

RESEARCH

Research an example of an industry where you might use a Histogram.

Hint: Think about product or service quality improvements.

MEMORY

Remember! When drawing a histogram we have to calculate the frequency density by using the formula:

$$\text{Frequency Density} = \frac{\text{Frequency}}{\text{Class Width}}$$

SKILL

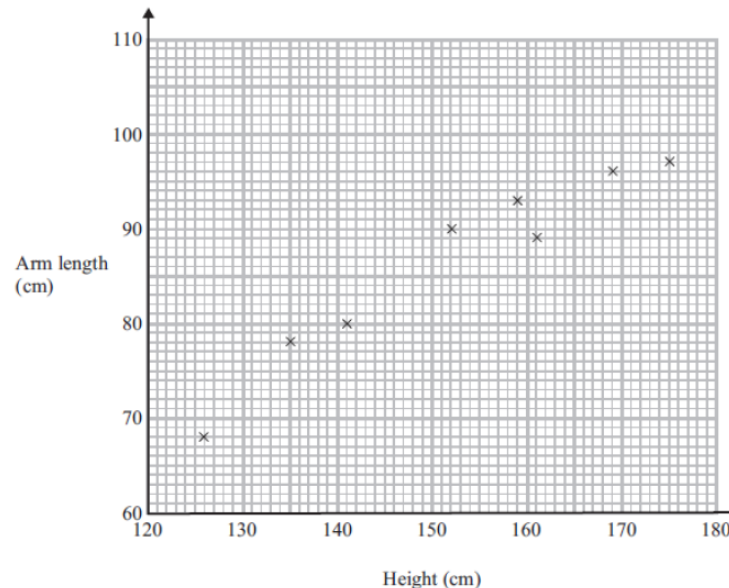
Question 1: 30 students ran a cross-country race. Each student's time was recorded. The table shows information about these times.

Time (t minutes)	Frequency
$10 \leq t < 14$	2
$14 \leq t < 18$	5
$18 \leq t < 22$	12
$22 \leq t < 26$	8
$26 \leq t < 30$	3

On the grid, draw a frequency polygon to show this information.

NOTE: THE GRID IS ON THE BACK OF THE SHEET

Question 2: The scatter graph shows information about the height and the arm length of each of 8 students in Year 10.



STRETCH

Question 3: The table gives information about the heights, h metres, of trees in a wood.

Height (h metres)	Frequency
$0 < h \leq 2$	7
$2 < h \leq 4$	14
$4 < h \leq 8$	18
$8 < h \leq 16$	24
$16 < h \leq 20$	10

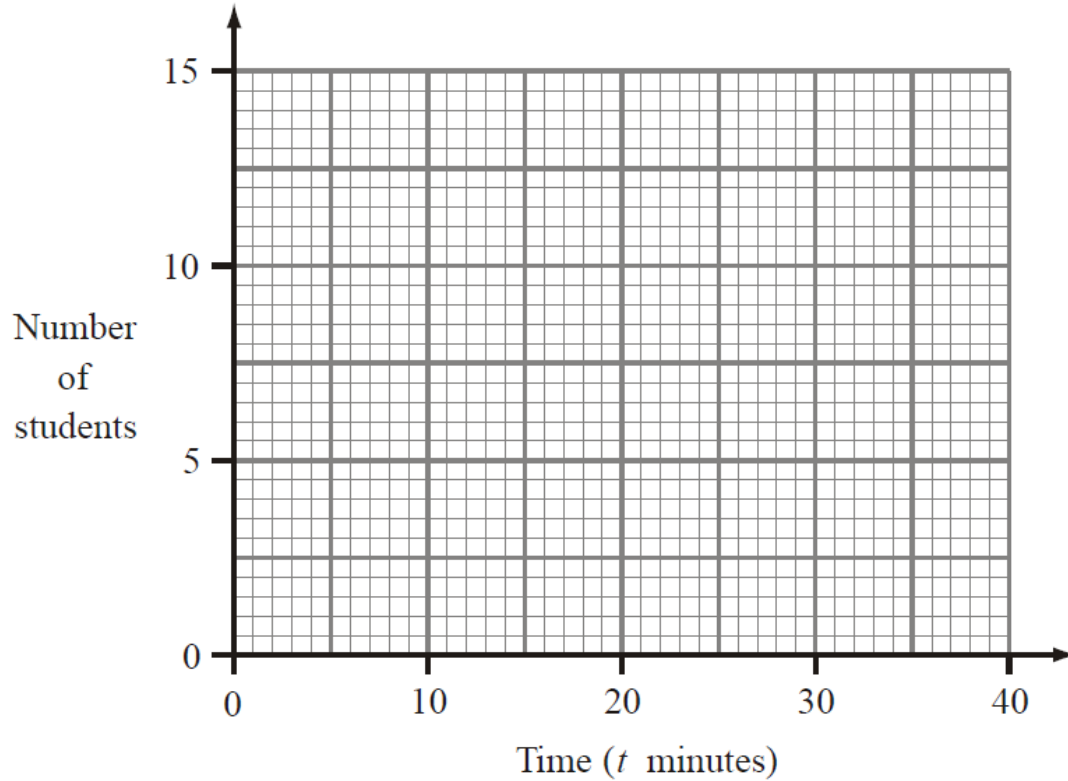
Draw a histogram to show this information. (The grid is on the back)

Due Date:

Data (1) - Answer Sheet

SKILL

Question 1:



Question 2:

(a) What type of correlation does this scatter graph show?

A different student in Year 11 has a height of 148 cm.

(b) Estimate the arm length of this student.

STRETCH

Question 3:

