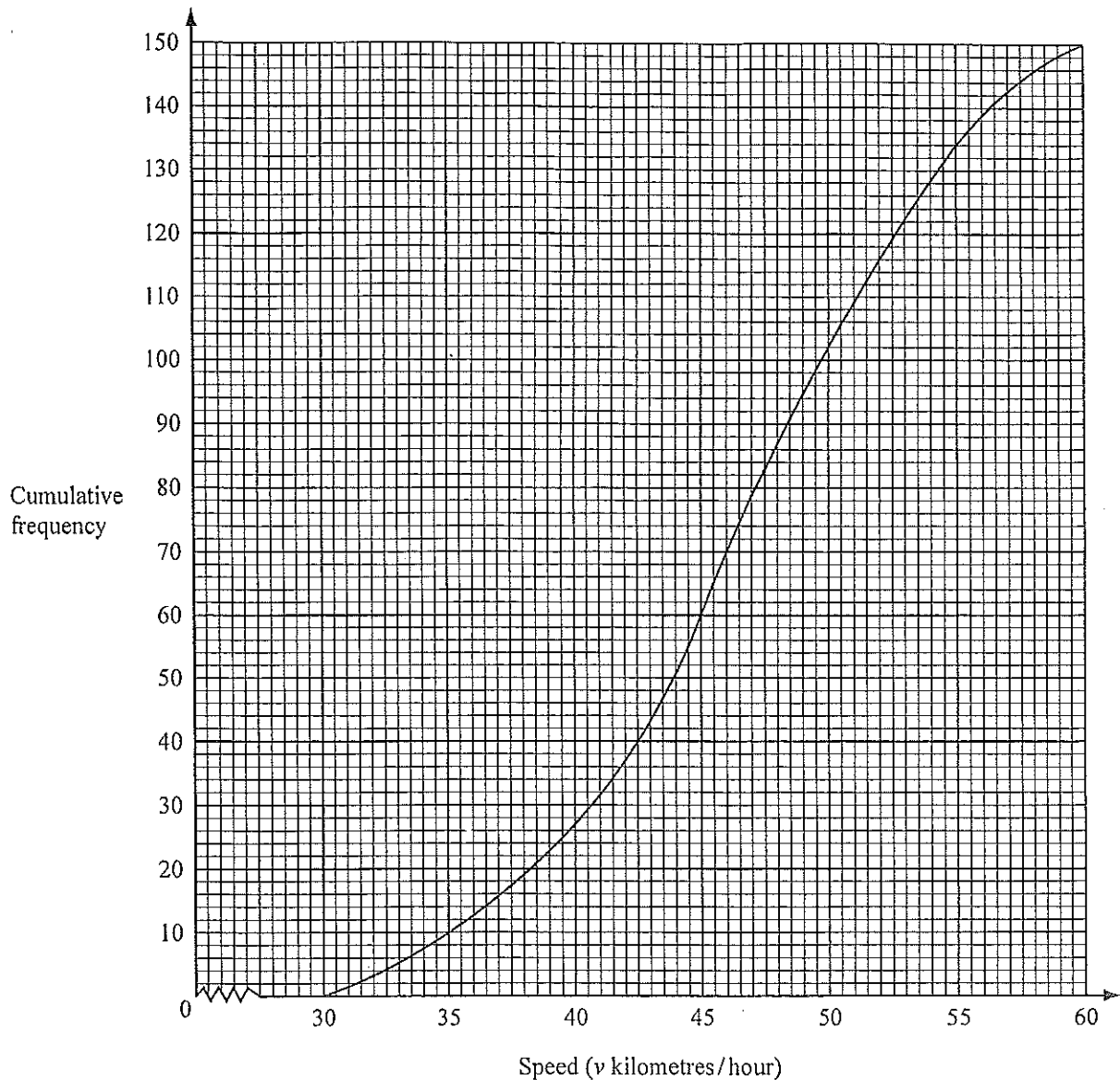


# IGSCE – Est. Mean, Histogram/Cumulative Frequency-1

May 05 Paper 4

- 7 The speeds ( $v$  kilometres/hour) of 150 cars passing a 50 km/h speed limit sign are recorded. A cumulative frequency curve to show the results is drawn below.



- (a) Use the graph to find
- (i) the median speed, [1]
  - (ii) the inter-quartile range of the speeds, [2]
  - (iii) the number of cars travelling with speeds of more than 50 km/h. [2]

(b) A frequency table showing the speeds of the cars is

Speed ( $v$ km/h)	$30 < v \leq 35$	$35 < v \leq 40$	$40 < v \leq 45$	$45 < v \leq 50$	$50 < v \leq 55$	$55 < v \leq 60$
Frequency	10	17	33	42	$n$	16

- (i) Find the value of  $n$ . [1]
- (ii) Calculate an estimate of the mean speed. [4]