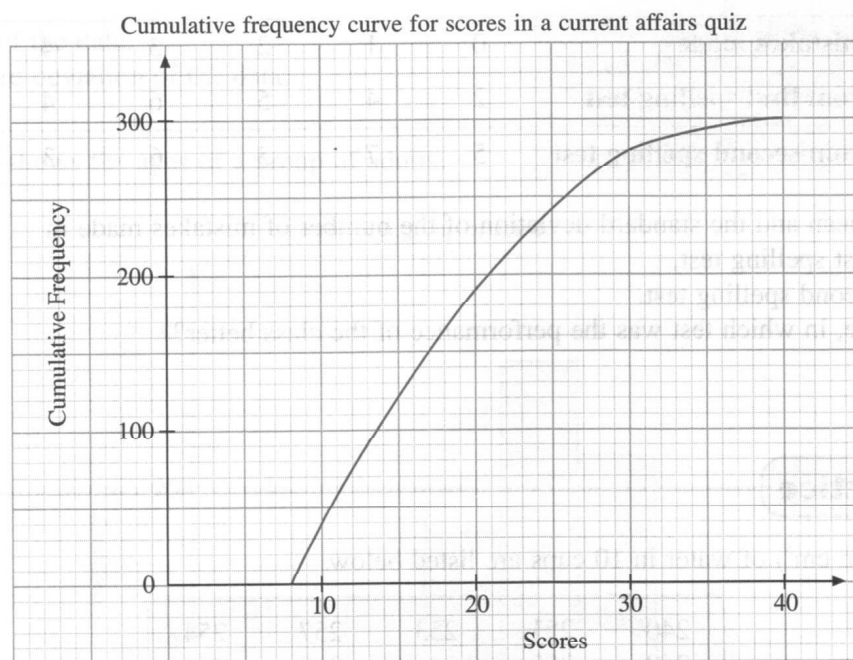


13. The number of good class bungalows (GCBs) owned by each of the 8 billionaires worldwide is: 6, 21, 35, 16, 52, 32, 24 and 15.
- Find the mean number of GCBs owned by each billionaire.
 - Find the sum of the squares of the number of GCBs owned by the billionaires.
 - Suppose that the billionaire who owned 52 GCBs actually owned 25 GCBs only. Find the actual mean number of GCBs owned by each of the 8 billionaires.
 - Hence, use the information and answers in (b) and (c) to calculate the standard deviation of the number of GCBs owned by the 8 billionaires.

14. The speeds (in km/h) of 5 cars at a checkpoint are: 60, 55, 63, 71 and 42.
- Find the mean speed of the cars.
 - Find
 - the sum of the squares of the speeds of the cars,
 - the standard deviation of the speeds of the cars.
 - The mean speed becomes 58 km/h if the speed of a 6th car is included. Find the speed of the 6th car.
 - Hence, use the information and answers in (b)(i) and (c) to calculate the standard deviation of the speeds of the 6 cars.

15. The cumulative frequency curve shows the distribution of the scores of 300 undergraduates in a current affairs quiz.



- Find the median of the data.
- Copy and complete the corresponding frequency table of the cumulative curve.

Score (x)	Frequency
$0 < x \leq 10$	
$10 < x \leq 20$	
$20 < x \leq 30$	
$30 < x \leq 40$	

- Estimate the mean of the data.
- Estimate the standard deviation of the data.