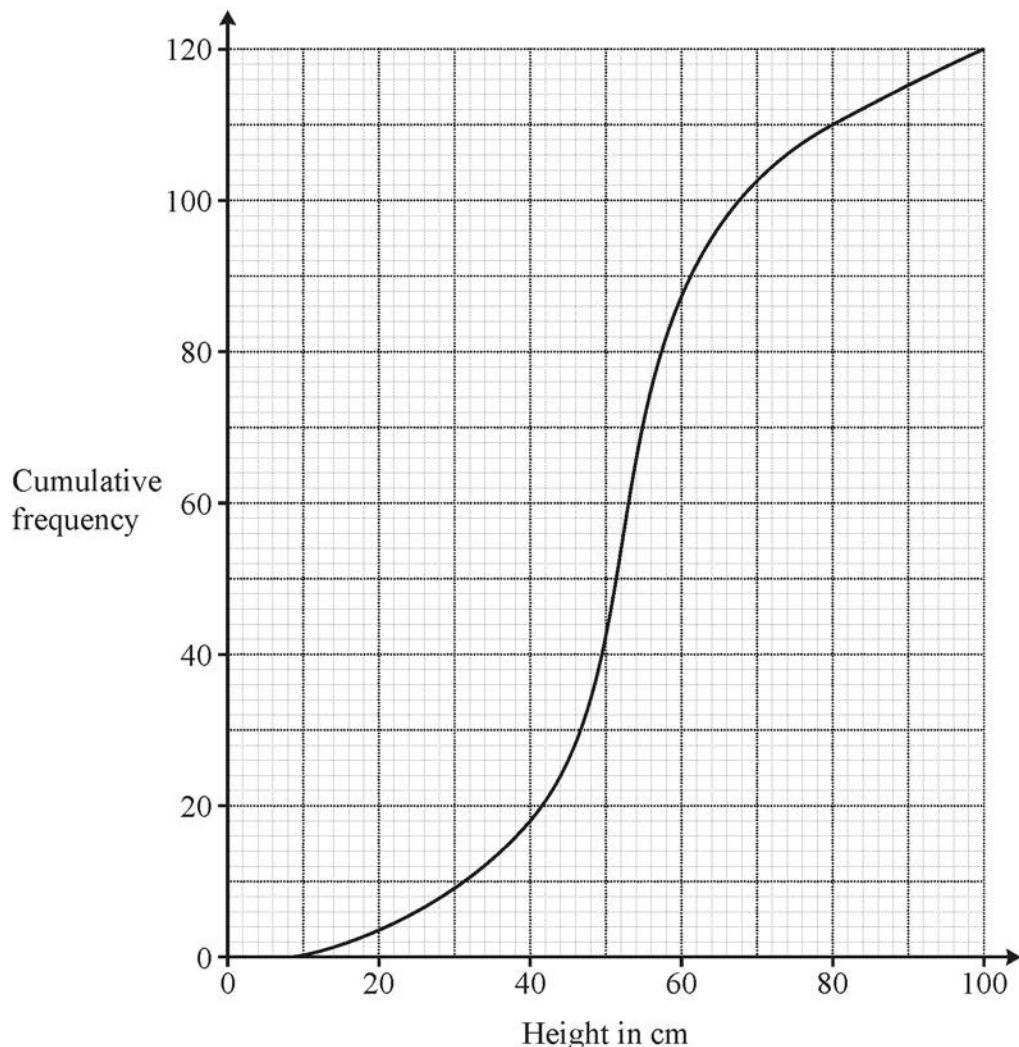


8 A garden centre stocks coniferous hedging plants. These are displayed in 10 rows, each of 120 plants. An employee collects a sample of the heights of these plants by recording the height of each plant on the front row of the display.

(a) Explain whether the data collected by the employee is a simple random sample. [1]

The data are shown in the cumulative frequency curve below.



The owner states that at least 75% of the plants are between 40 cm and 80 cm tall.

(b) Show that the data collected by the employee supports this statement. [4]

(c) Explain whether all samples of 120 plants would necessarily support the owner's statement. [1]