1

Survey	The colours of cars passing a school at lunchtime
Controlled experiment	The number of people in each house of a street
Observation	The number of vehicles crossing a bridge in 2014
Data logging	The reaction times of girls and boys

2 primary secondary discrete continuous

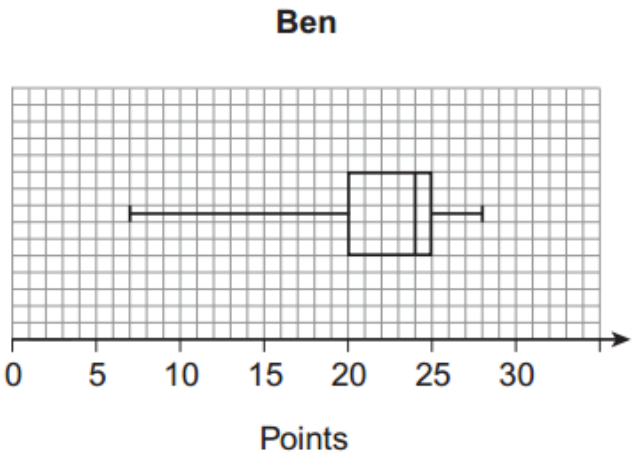
3 continuous discrete sample primary secondary

5

Amy and Ben each played a game 15 times.
The stem-and-leaf diagram shows the points scored by Amy.

Key: 3 | 0 represents 30 points

0	9
1	2 4 5 6 8 9
2	1 3 3 5 7 8 8
3	0



6

Junior	Adult	Senior
35	220	45

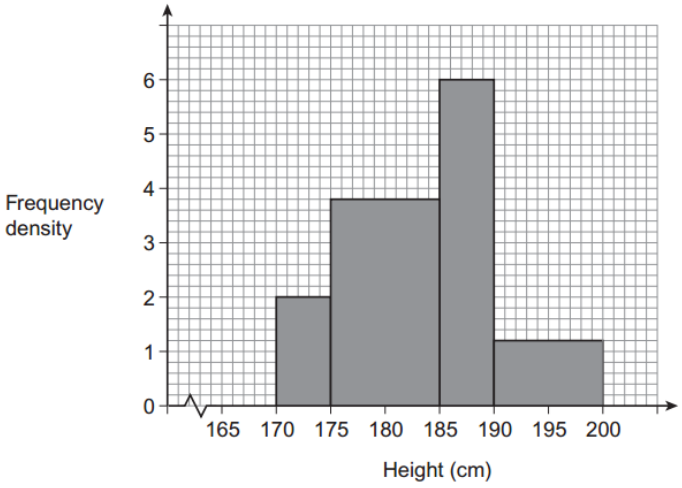
7

Time, t (minutes)	Frequency
$25 < t \leqslant 30$	12
$30 < t \leqslant 35$	18
$35 < t \leqslant 40$	24
$40 < t \leqslant 45$	6
	Total = 60

8

Speed, s (mph)	Frequency
$18 \leqslant s < 20$	80
$20 \leqslant s < 25$	440
$25 \leqslant s < 30$	360
$30 \leqslant s < 40$	120

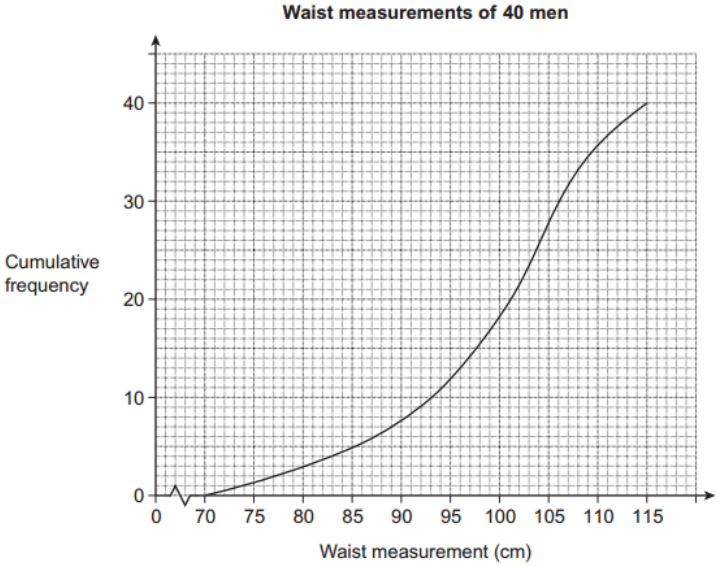
9



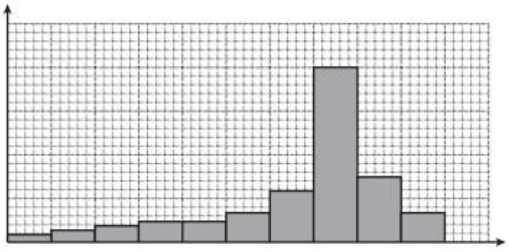
10

Mark, m	Frequency	Cumulative frequency
$15 < m \leqslant 40$	80	80
$40 < m \leqslant 60$	220	
$60 < m \leqslant 80$	125	
$80 < m \leqslant 100$	75	

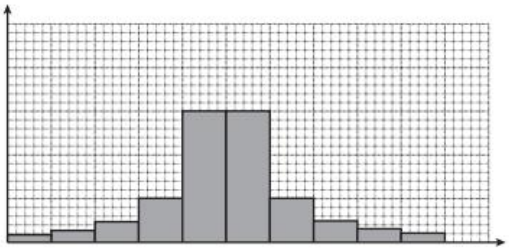
11



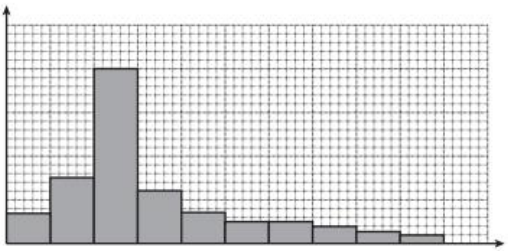
12



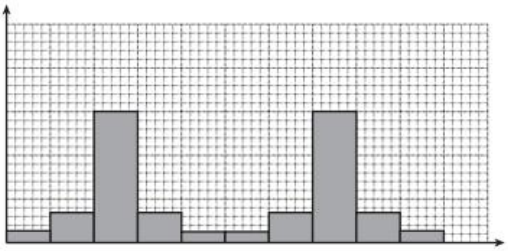
Histogram 1



Histogram 2

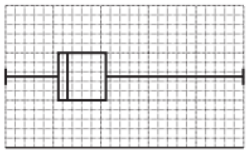


Histogram 3

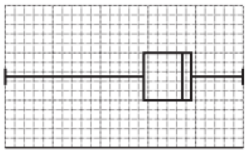


Histogram 4

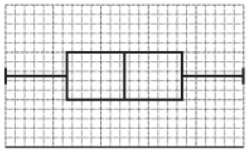
Box plot A



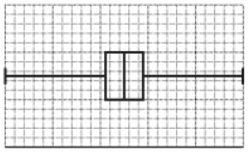
Box plot B



Box plot C



Box plot D



13

A Work out the mean age for each channel.

B Select some television viewers to ask.

C Compare the results and comment on the hypothesis.

D Collect data about the ages of the television viewers.

14

The sections of a fair spinner are red, white or blue.

The spinner is spun 40 times.

Red	White	Blue	Total
28	9	3	40

15

A gardener plants ten seeds each week from the same seed packet.
The graph shows the relative frequency of seeds that germinate.