Answers Sheet

Cumulative Frequency
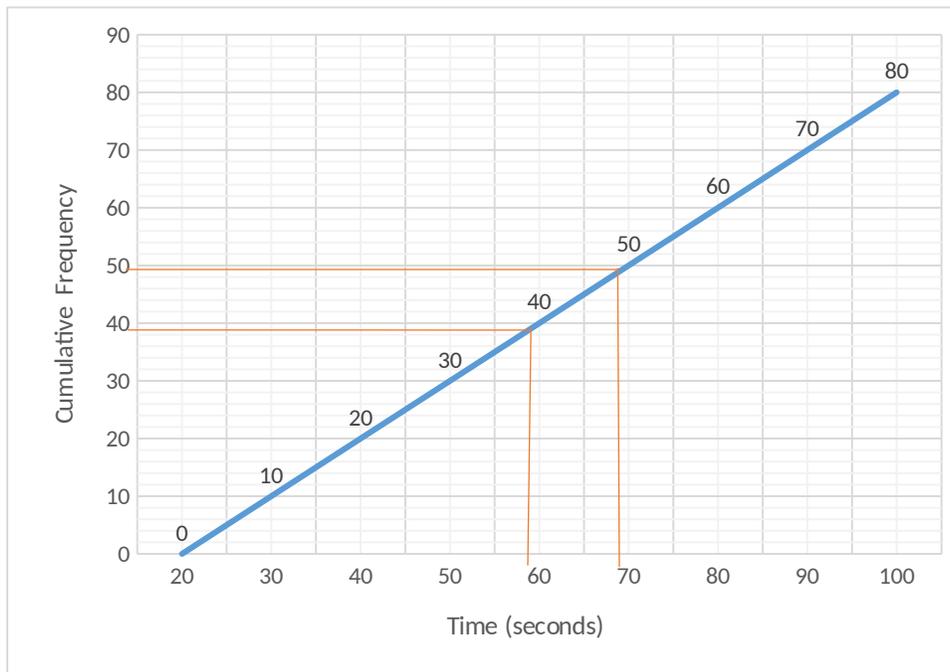
1.

a)
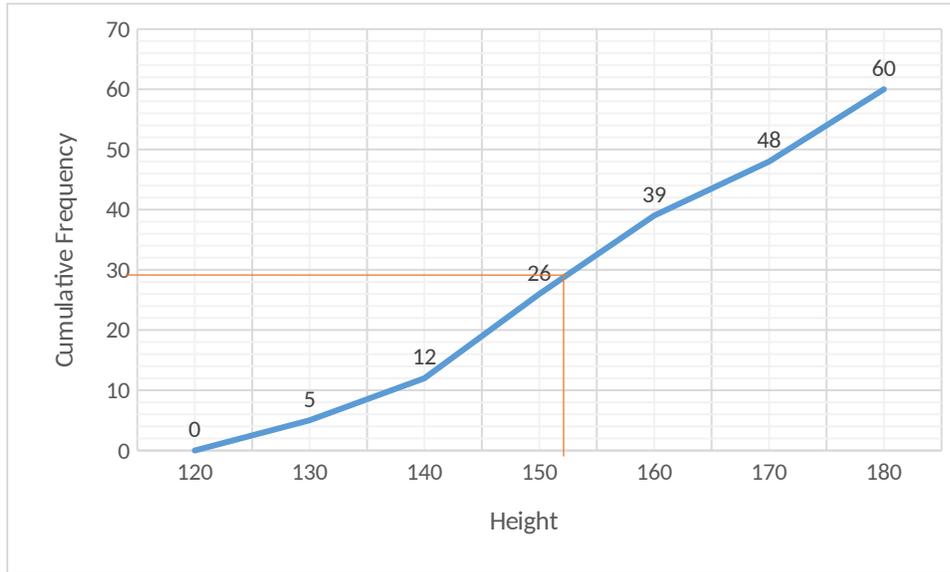
b) Median = around 157

2.

a) Median = 60 seconds

b) = 80-50 = 30

3.

a)

Weight (kg)	Cumulative Frequency
$0 < w \leq 2$	2
$0 < w \leq 4$	2 + 17 = 19
$0 < w \leq 6$	19 + 24 = 43
$0 < w \leq 8$	43 + 23 = 66
$0 < w \leq 10$	66 + 10 = 76
$0 < w \leq 12$	76 + 4 = 80

b)
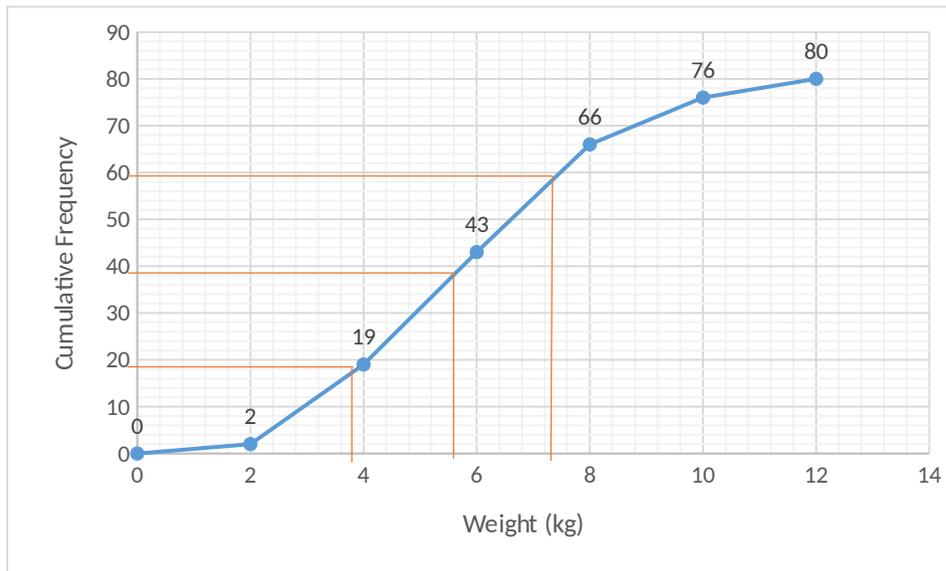
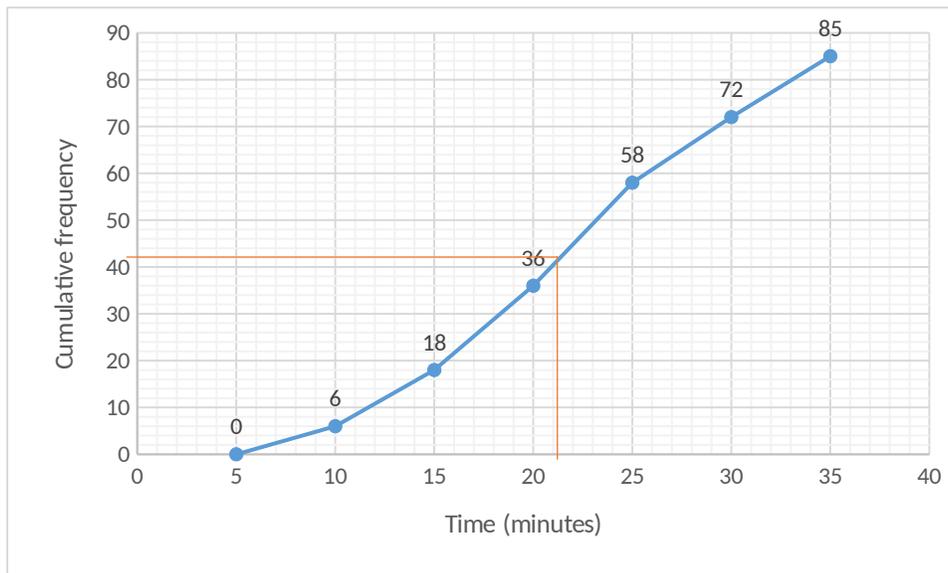L.Q   Med   U.Q

c) L.Q = 4

U.Q = Approx 7.5

Inter Quartile = Upper Quartile – Lower Quartile

= 7.5 – 4 = 3.5

4.

a)

Time (minutes)	Cumulative Frequency
5 < t ≤ 10	6
5 < t ≤ 15	18
5 < t ≤ 20	36
5 < t ≤ 25	58
5 < t ≤ 30	72
5 < t ≤ 35	85

b) Median = 22 minutes (approximately)

5

a)

Speed (km/h)	Frequency
0 < s ≤ 10	5
0 < s ≤ 20	5 + 10 = 15
0 < s ≤ 30	15 + 13 = 28
0 < s ≤ 40	28 + 9 = 37
0 < s ≤ 50	37 + 19 = 56
0 < s ≤ 60	56 + 4 = 60
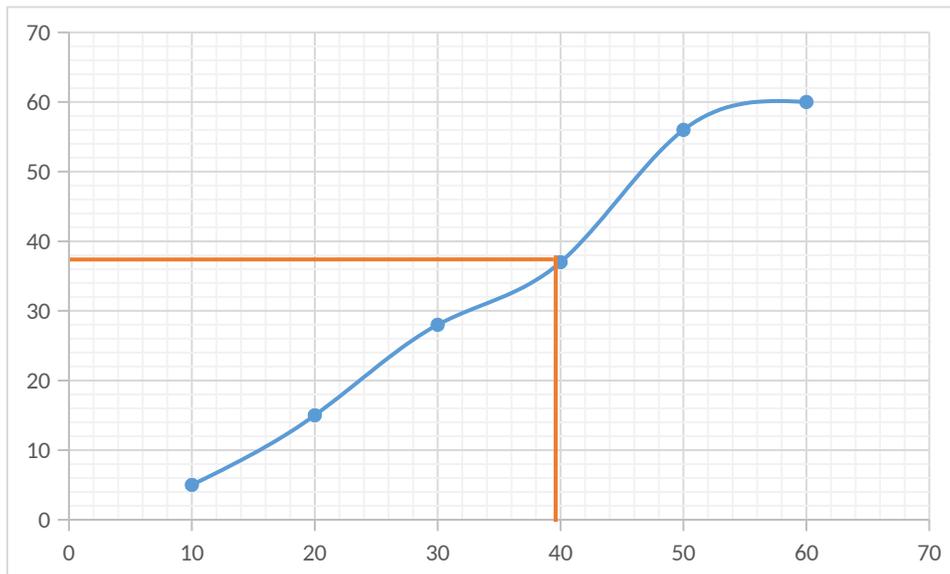
b) 60 – 38 = 22

6
a)
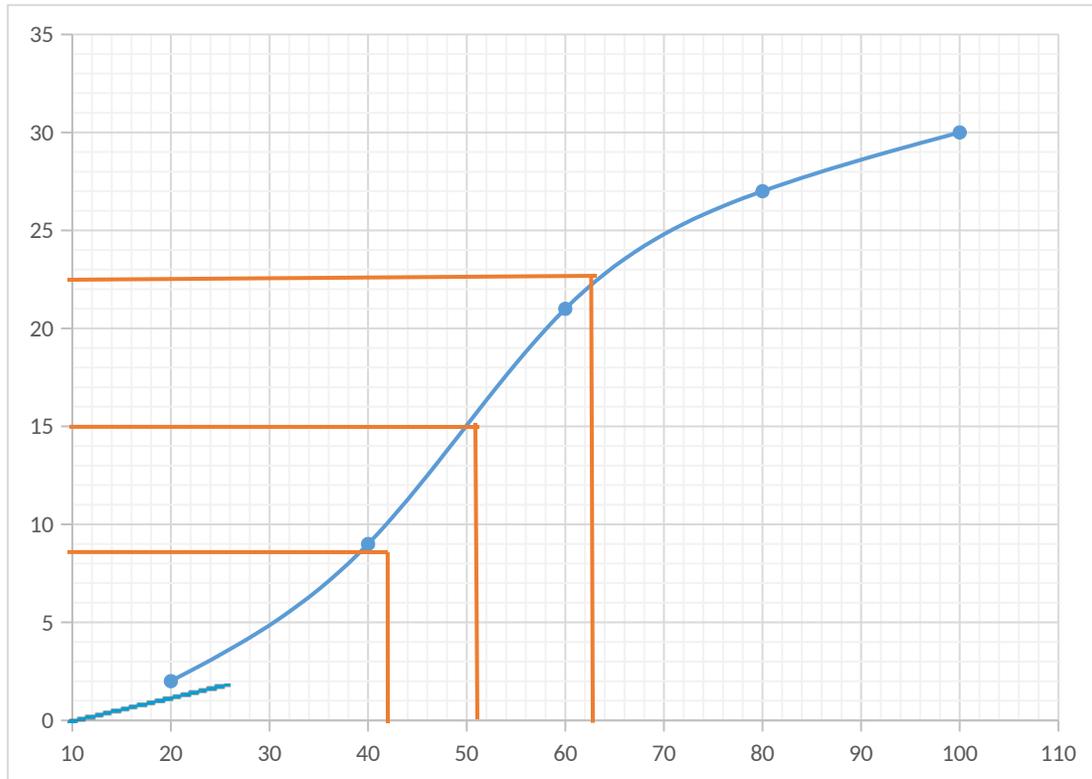
b) Median = 50
c) Inter Quartile = 64 – 39 = 25