1 The table shows the amount of snow, in cm, that fell each day for 30 days.

Amount of snow (s cm)	**Frequency**
$0 \leqslant s < 10$	8
$10 \leqslant s < 20$	10
$20 \leqslant s < 30$	7
$30 \leqslant s < 40$	2
$40 \leqslant s < 50$	3

Work out an estimate for the mean amount of snow per day.

frequency x midpoint ✓①

8 x 5 + 10 x 15 + 7 x 25 + 2 x 35 + 3 x 45

40 + 150 + 175 + 70 + 135

= 570 ✓①

570 ÷ 30 days = 19 mean ✓①

19 cm

(Total for Question 1 is 3 marks)

2 The table shows some information about the profit made each day at a cricket club on 100 days.

Profit (£x)	Frequency
$0 \leqslant x < 50$	10
$50 \leqslant x < 100$	15
$100 \leqslant x < 150$	25
$150 \leqslant x < 200$	30
$200 \leqslant x < 250$	5
$250 \leqslant x < 300$	15

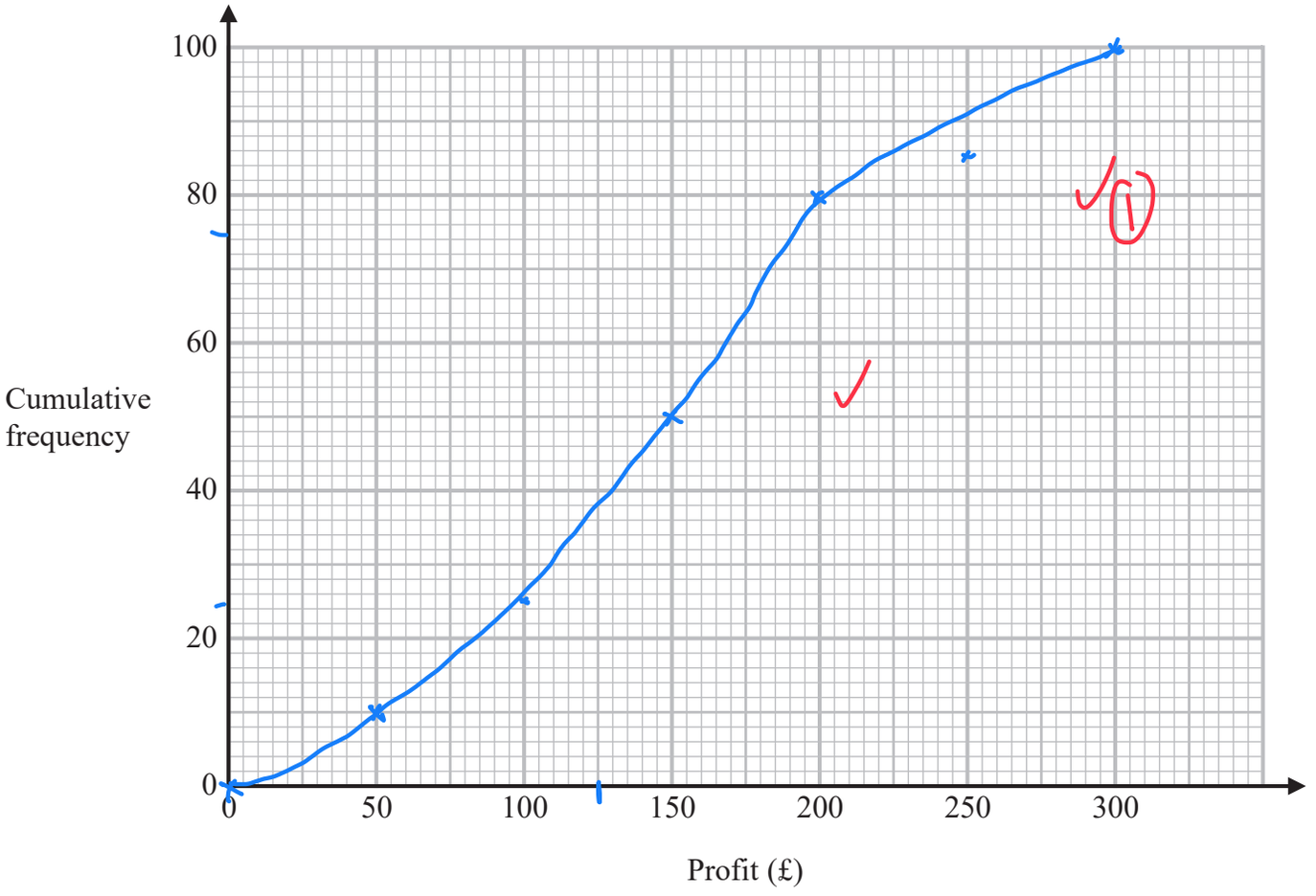
(a) Complete the cumulative frequency table.

Profit (£x)	Cumulative frequency
$0 \leqslant x < 50$	10
$0 \leqslant x < 100$	25
$0 \leqslant x < 150$	50
$0 \leqslant x < 200$	80
$0 \leqslant x < 250$	85
$0 \leqslant x < 300$	100

✓ (1)

(1)

(b) On the grid, draw a cumulative frequency graph for this information.



(2)

(c) Use your graph to find an estimate for the number of days on which the profit was less than £125

at £125, days are 36 ✓(1) 36 ..... days

(1)

(d) Use your graph to find an estimate for the interquartile range.

day 25 to 75

£100 191 ✓(1)

191 − 100 = 91 ✓(1) £ 91 .....

(2)

(Total for Question 2 is 6 marks)