Plot a histogram

Miss Parnham

Plot a histogram

1. The table shows the time taken by students to walk to school.
Complete the table.
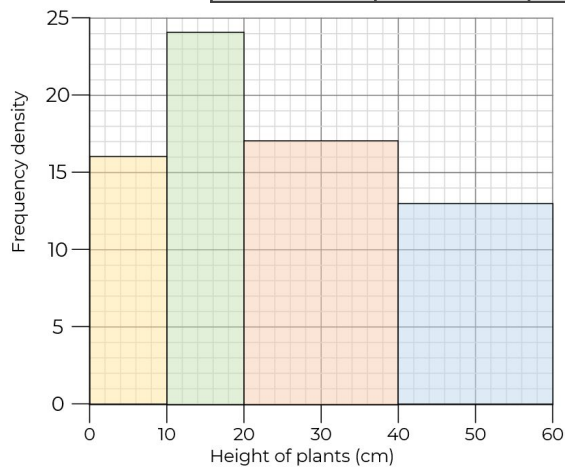
Time (minutes)	Frequency	Class width	Frequency density
0 < t ≤ 10	9		
10 < t ≤ 15	12		
15 < t ≤ 20	15		
20 < t ≤ 30	8		
30 < t ≤ 60	6		

What is the modal class interval?

2. Mo has drawn a histogram from this data.

What mistake has he made?

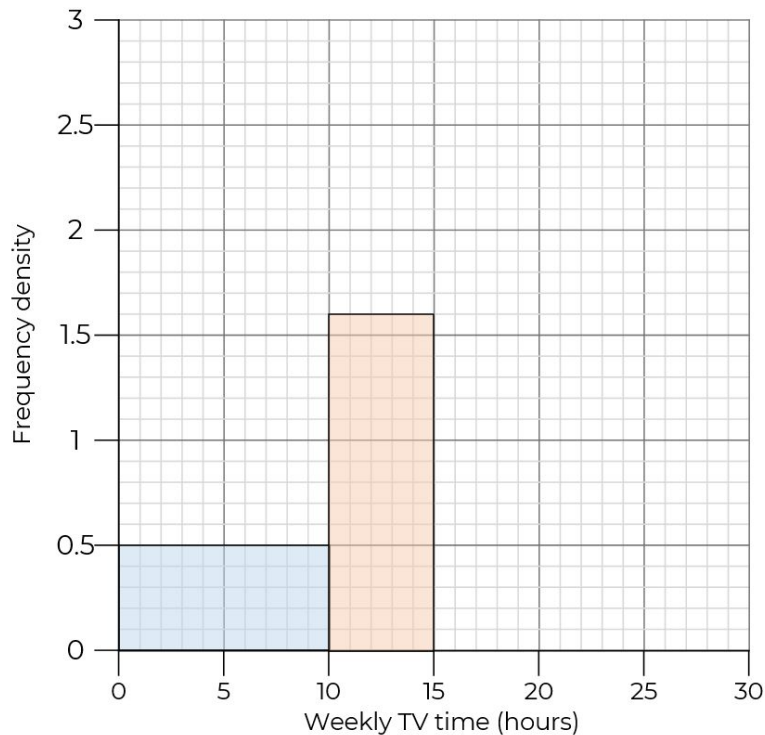| Height (cm)	Frequency	Class width	F.D
0 < t ≤ 10	16	10	1.6
10 < t ≤ 20	24	10	2.4
20 < t ≤ 40	17	20	0.85
40 < t ≤ 60	13	20	0.65

Plot a histogram

3. Complete the table and histogram.

Weekly TV time (hours)	Frequency	Class width	Frequency density
0 < t ≤ 10	5	10	0.5
10 < t ≤ 15	8	5	1.6
15 < t ≤ 20	15		
20 < t ≤ 30	2		

Plot a histogram

4. Complete the table and draw a histogram to represent the data.

Handspan (cm)	Frequency	Class width	Frequency density
0 < t ≤ 10	2		
10 < t ≤ 20	9		
20 < t ≤ 25	13		
25 < t ≤ 30	6		
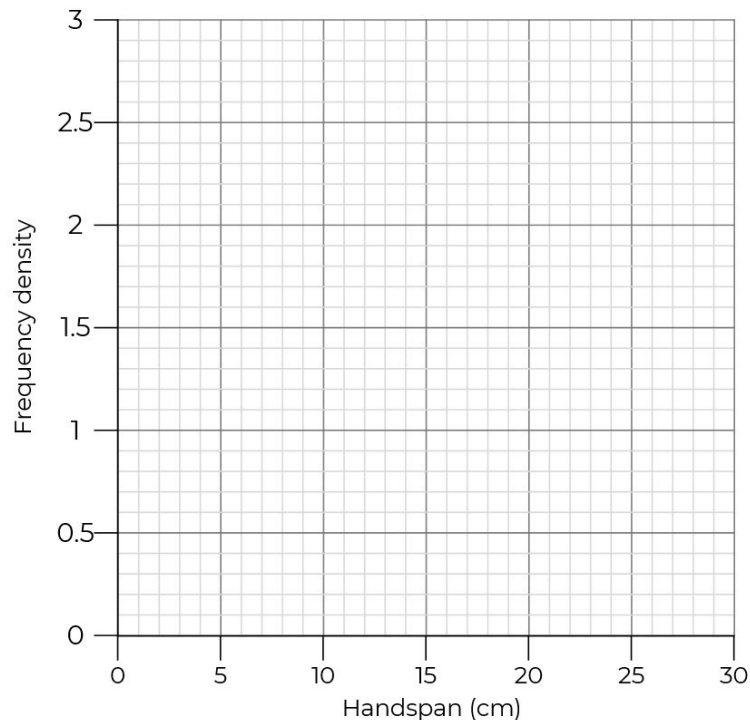
Answers

Plot a histogram

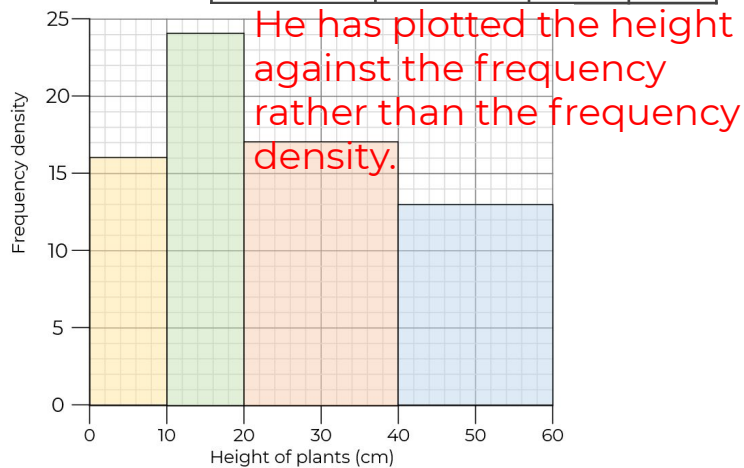1. The table shows the time taken by students to walk to school.

Complete the table.

Time (minutes)	Frequency	Class width	Frequency density
0 < t ≤ 10	9	10	0.9
10 < t ≤ 15	12	5	2.4
15 < t ≤ 20	15	5	3
20 < t ≤ 30	8	10	0.8
30 < t ≤ 60	6	30	0.2

What is the modal class interval? 15 < t ≤ 20

2. Mo has drawn a histogram from this data.

What mistake has he made?

Height (cm)	Frequency	Class width	F.D
0 < t ≤ 10	16	10	1.6
10 < t ≤ 20	24	10	2.4
20 < t ≤ 40	17	20	0.85
40 < t ≤ 60	13	20	0.65

He has plotted the height against the frequency rather than the frequency density.
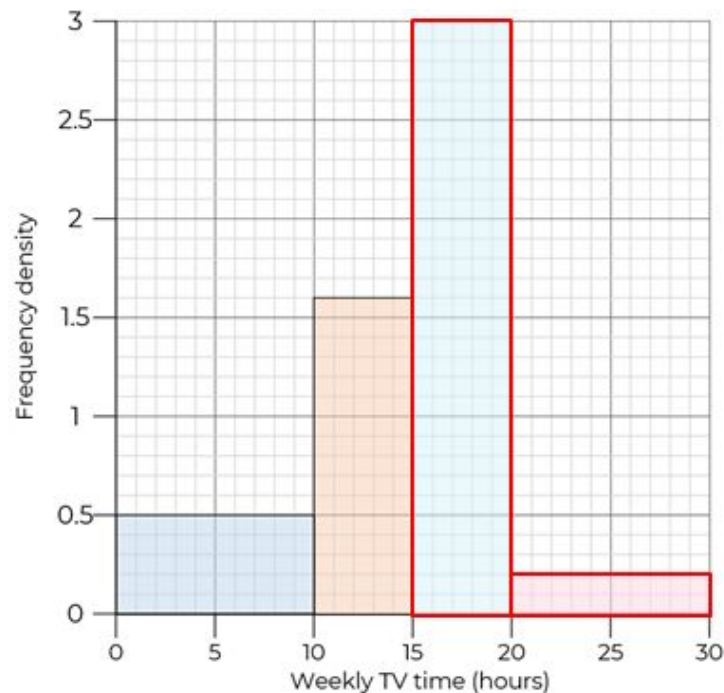
Plot a histogram

3. Complete the table and histogram.

Weekly TV time (hours)	Frequency	Class width	Frequency density
0 < t ≤ 10	5	10	0.5
10 < t ≤ 15	8	5	1.6
15 < t ≤ 20	15	5	3
20 < t ≤ 30	2	10	0.2

Plot a histogram

4. Complete the table and draw a histogram to represent the data.

Handspan (cm)	Frequency	Class width	Frequency density
0 < t ≤ 10	2	10	0.2
10 < t ≤ 20	9	10	0.9
20 < t ≤ 25	13	5	2.6
25 < t ≤ 30	6	5	1.2