

- 1 The table shows information about the weekly earnings of 20 people who work in a shop.

| Weekly earnings (£ x) | Frequency |
|--------------------------|-----------|
| $150 < x \leq 250$ | 1 |
| $250 < x \leq 350$ | 11 |
| $350 < x \leq 450$ | 5 |
| $450 < x \leq 550$ | 0 |
| $550 < x \leq 650$ | 3 |

- (a) Work out an estimate for the mean of the weekly earnings.

£.....
(3)

Nadiya says,

“The mean may **not** be the best average to use to represent this information.”

- (b) Do you agree with Nadiya?
You must justify your answer.

.....
.....
(1)

(Total for Question 1 is 4 marks)

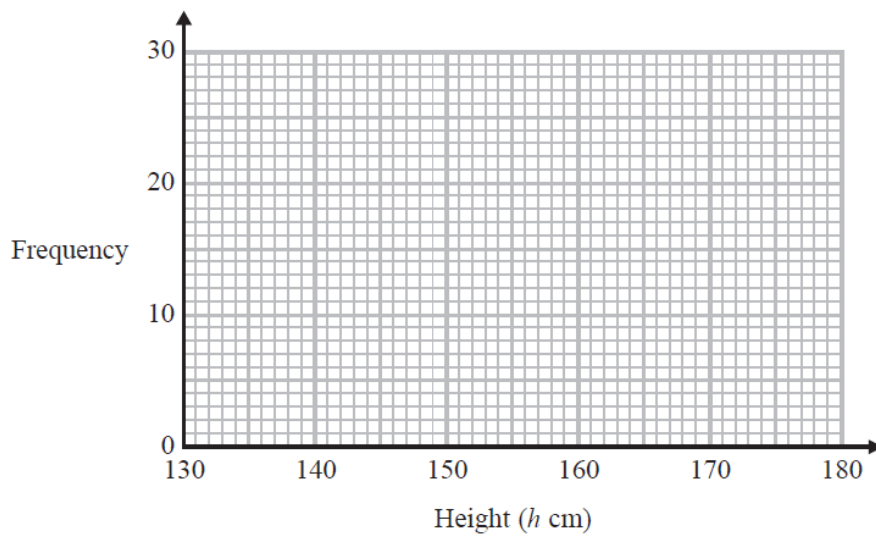
2 The table shows information about the heights of 80 children.

| Height (h cm) | Frequency |
|--------------------|-----------|
| $130 < h \leq 140$ | 4 |
| $140 < h \leq 150$ | 11 |
| $150 < h \leq 160$ | 24 |
| $160 < h \leq 170$ | 22 |
| $170 < h \leq 180$ | 19 |

(a) Find the class interval that contains the median.

.....
(1)

(b) Draw a frequency polygon for the information in the table.



(2)

(Total for Question is 3 marks)

- 3 The table gives information about the times taken, in seconds, by 18 students to run a race.

| Time (t seconds) | Frequency |
|---------------------|-----------|
| $5 < t \leq 10$ | 1 |
| $10 < t \leq 15$ | 2 |
| $15 < t \leq 20$ | 7 |
| $20 < t \leq 25$ | 8 |

Work out an estimate for the mean time.
Give your answer correct to 3 significant figures.

..... seconds

(Total for Question is 3 marks)