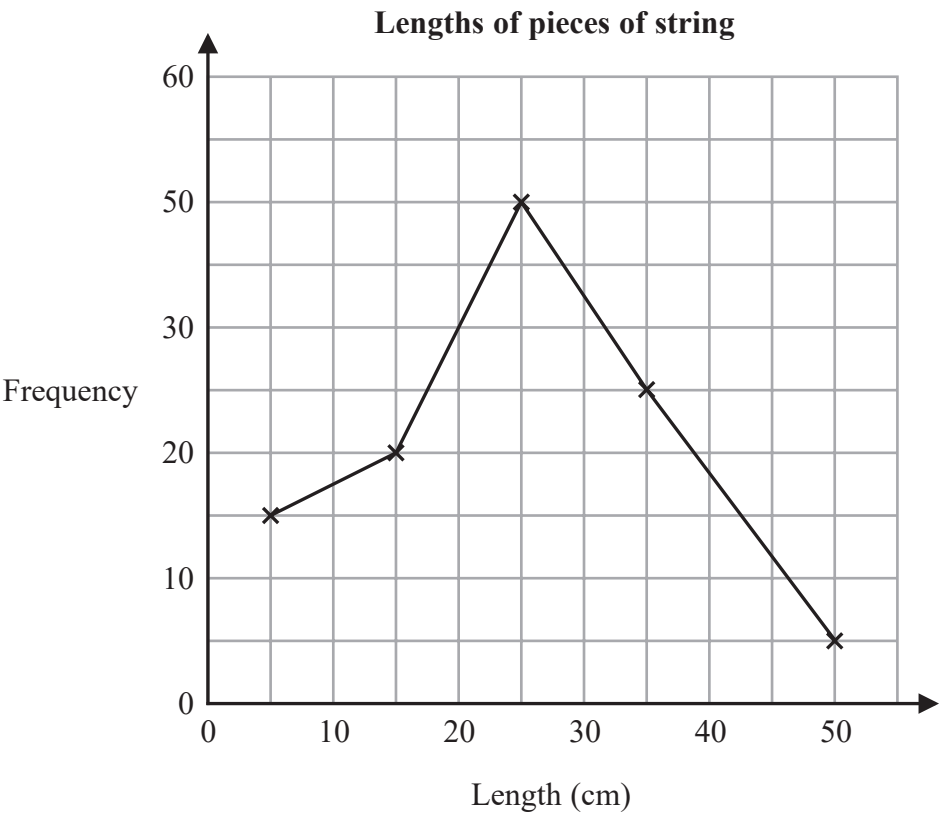**1** The table gives information about the lengths, in cm, of some pieces of string.

| Length ($t$ cm) | Frequency |
| --- | --- |
| $0 < t \leqslant 10$ | 15 |
| $10 < t \leqslant 20$ | 20 |
| $20 < t \leqslant 30$ | 50 |
| $30 < t \leqslant 40$ | 25 |
| $40 < t \leqslant 50$ | 5 |

Amos draws a frequency polygon for the information in the table.

**Lengths of pieces of string**



Length (cm)

Write down **two** mistakes that Amos has made.

1 ............................................................................................................................................................

............................................................................................................................................................

2 ............................................................................................................................................................

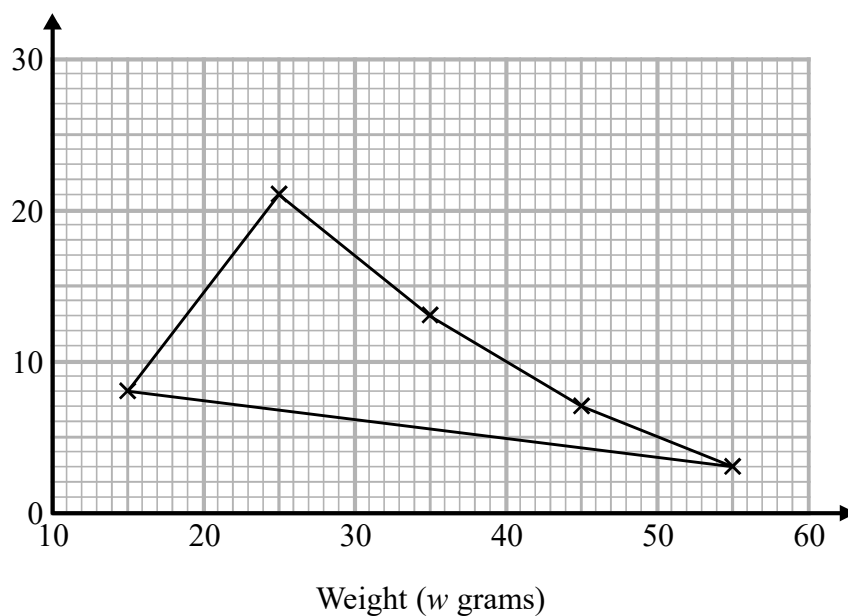............................................................................................................................................................

**(Total for Question 1 is 2 marks)**

**2** The table shows some information about the weights of 50 potatoes.

| Weight ($w$ grams) | Frequency |
|---|---|
| $10 < w \leqslant 20$ | 6 |
| $20 < w \leqslant 30$ | 21 |
| $30 < w \leqslant 40$ | 13 |
| $40 < w \leqslant 50$ | 7 |
| $50 < w \leqslant 60$ | 3 |

Iveta drew this frequency polygon for the information in the table.
The frequency polygon is **not** fully correct.



Weight ($w$ grams)

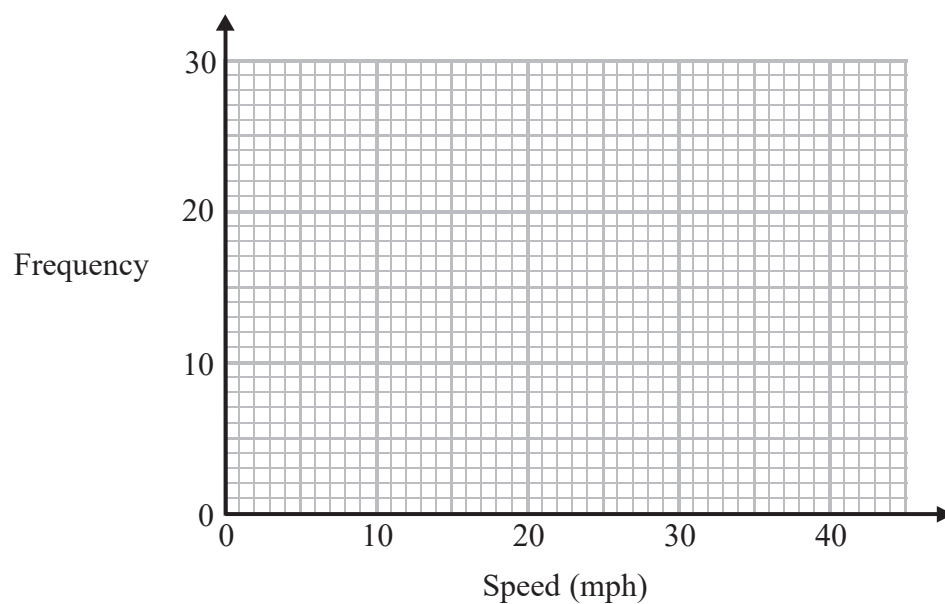Write down **two** things that are wrong with the frequency polygon.

1.........................................................................................................................................................

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2.........................................................................................................................................................

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**(Total for Question 2 is 2 marks)**

**3** The table gives information about the speeds of 70 cars.

| Speed (*s* mph) | Frequency |
|---|---|
| $0 < s \leqslant 10$ | 14 |
| $10 < s \leqslant 20$ | 18 |
| $20 < s \leqslant 30$ | 26 |
| $30 < s \leqslant 40$ | 12 |

Draw a frequency polygon for this information.



**(Total for Question 3 is 2 marks)**

**4** The table shows information about the heights of 80 children.

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

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

.............................................................................

**(1)**

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



**(2)**
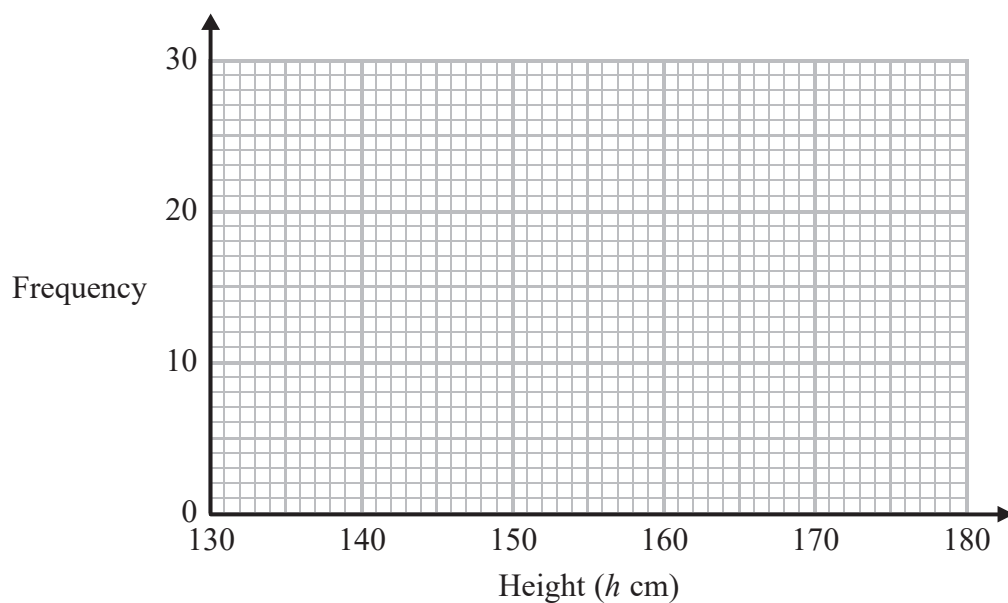
**(Total for Question 4 is 3 marks)**

**5** The table shows information about the heights of 80 plants.

| Height ($h$ cm) | Frequency |
|---|---|
| $10 < h \leqslant 20$ | 7 |
| $20 < h \leqslant 30$ | 13 |
| $30 < h \leqslant 40$ | 14 |
| $40 < h \leqslant 50$ | 12 |
| $50 < h \leqslant 60$ | 16 |
| $60 < h \leqslant 70$ | 18 |

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

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**(1)**

(b) On the grid, draw a frequency polygon for the information in the table.

Frequency

Height ($h$ cm)

**(2)**
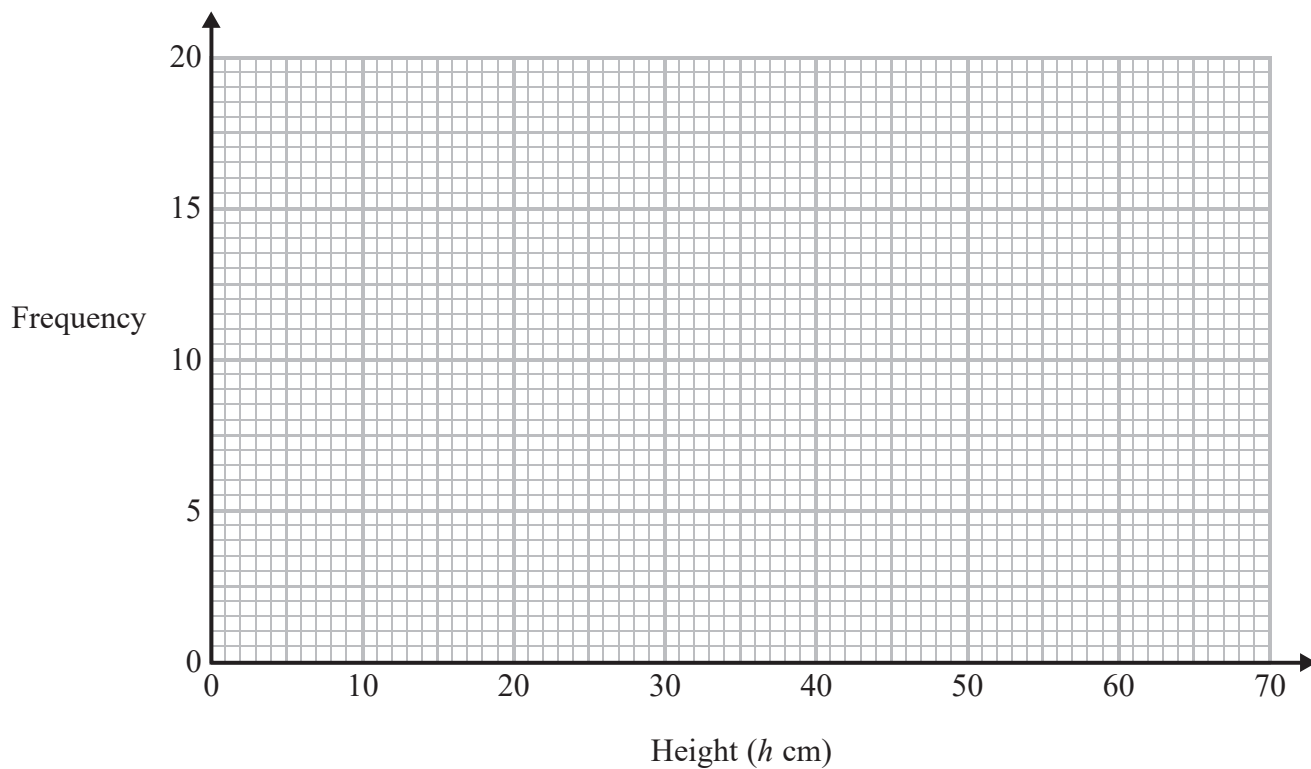
**(Total for Question 5 is 3 marks)**