FREQUENCY POLYGONS

Pearson Edexcel - Tuesday 11 June 2019 - Paper 3 (Calculator) Foundation Tier
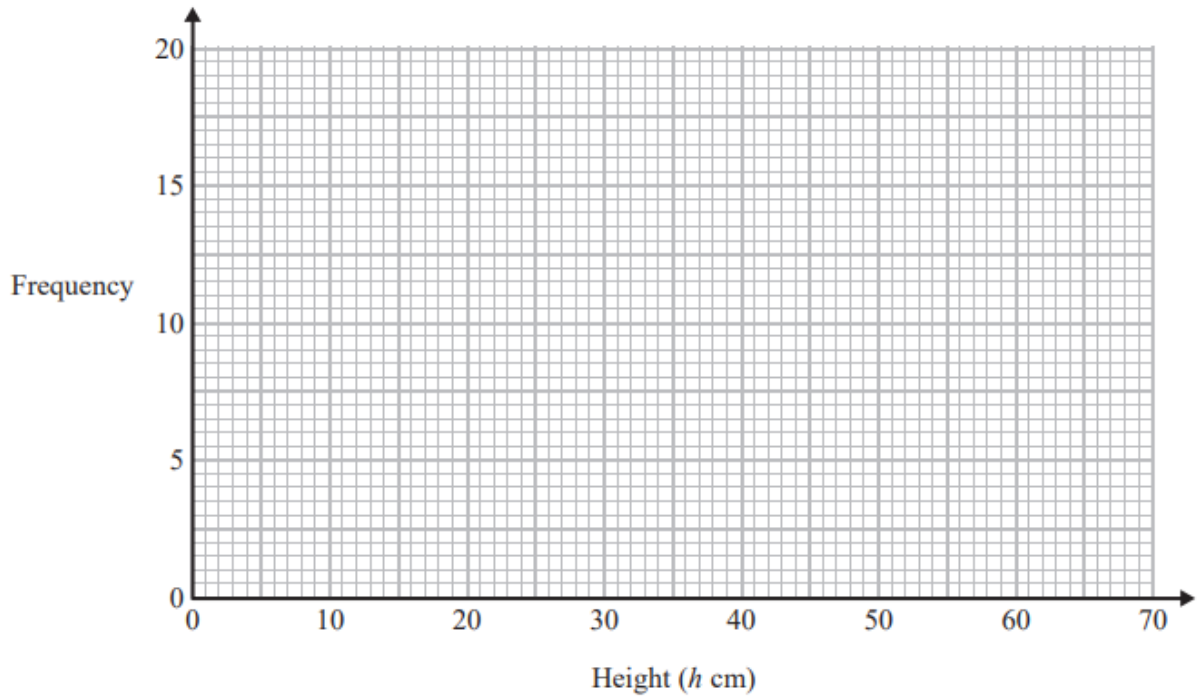
1.

26 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.

....

(1)

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

Height (h cm)

(2)

(Total for Question 26 is 3 marks)

Pearson Edexcel - Wednesday 8 November 2017 - Paper 3 (Calculator) Foundation Tier

2.

19 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)
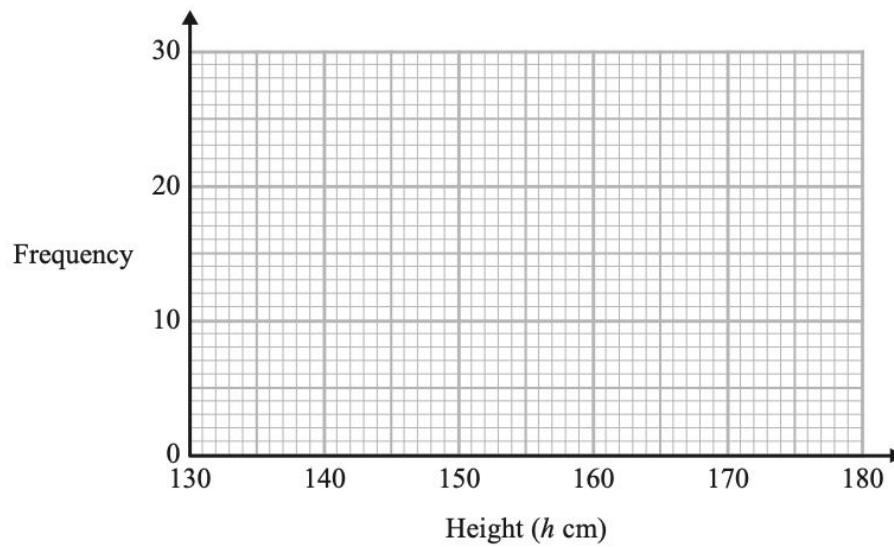
(Total for Question 19 is 3 marks)

Pearson Edexcel – Specimen 1 - Paper 2 (Calculator) Foundation Tier

3.

23 The grouped frequency table gives information about the heights of 30 students.

Height (h cm)	Frequency
$130 < h \leqslant 140$	1
$140 < h \leqslant 150$	7
$150 < h \leqslant 160$	8
$160 < h \leqslant 170$	10
$170 < h \leqslant 180$	4

(a) Write down the modal class interval.

....

(1)

This incorrect frequency polygon has been drawn for the information in the table.
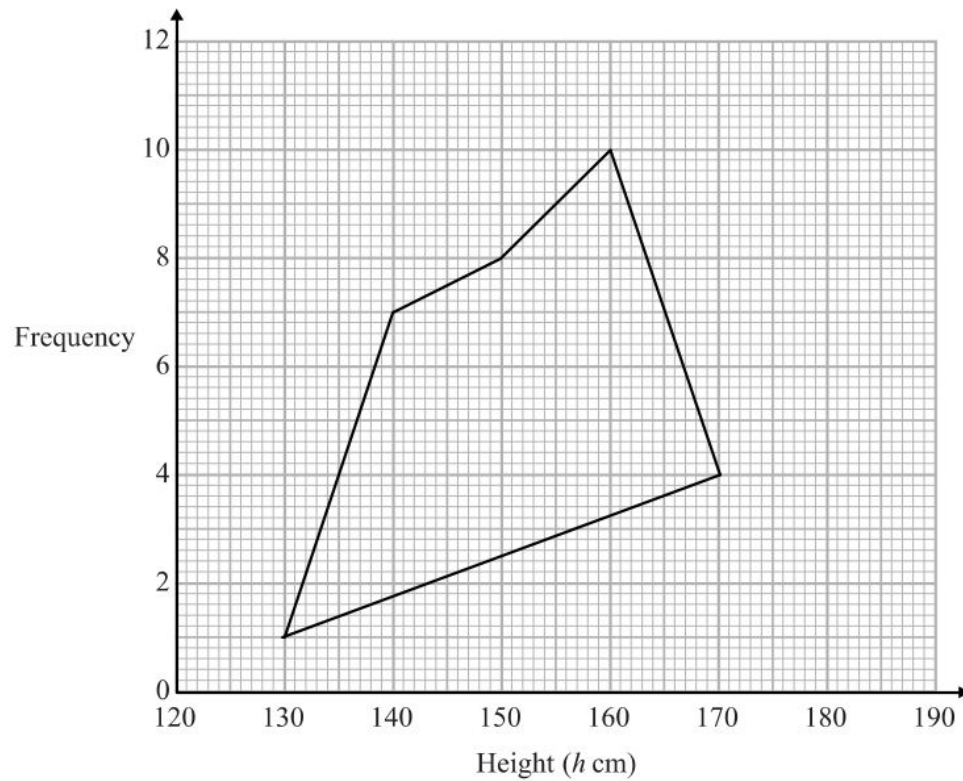
(b) Write down two things wrong with this incorrect frequency polygon.
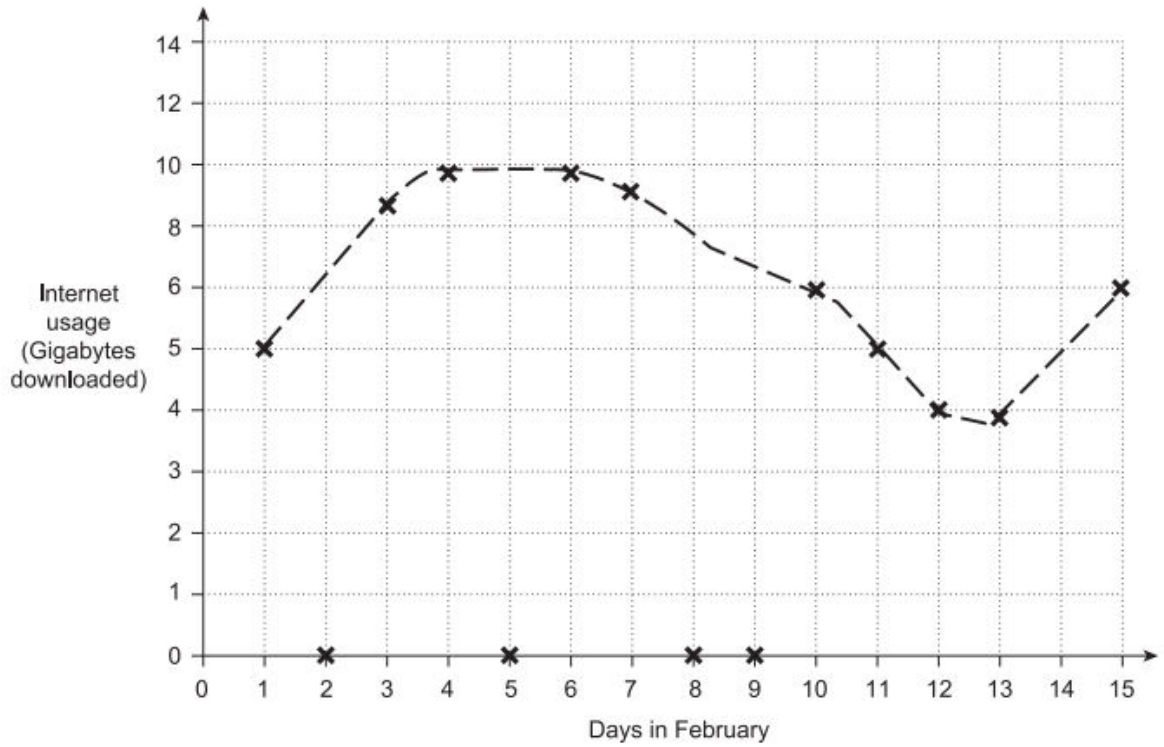
1 ....

2 ....

(2)

(Total for Question 23 is 3 marks)

4.

12 Shinya's internet service provider gives him a graph of his internet usage in the first part of February.

State two reasons why this graph is misleading.

1 ....

2 ....
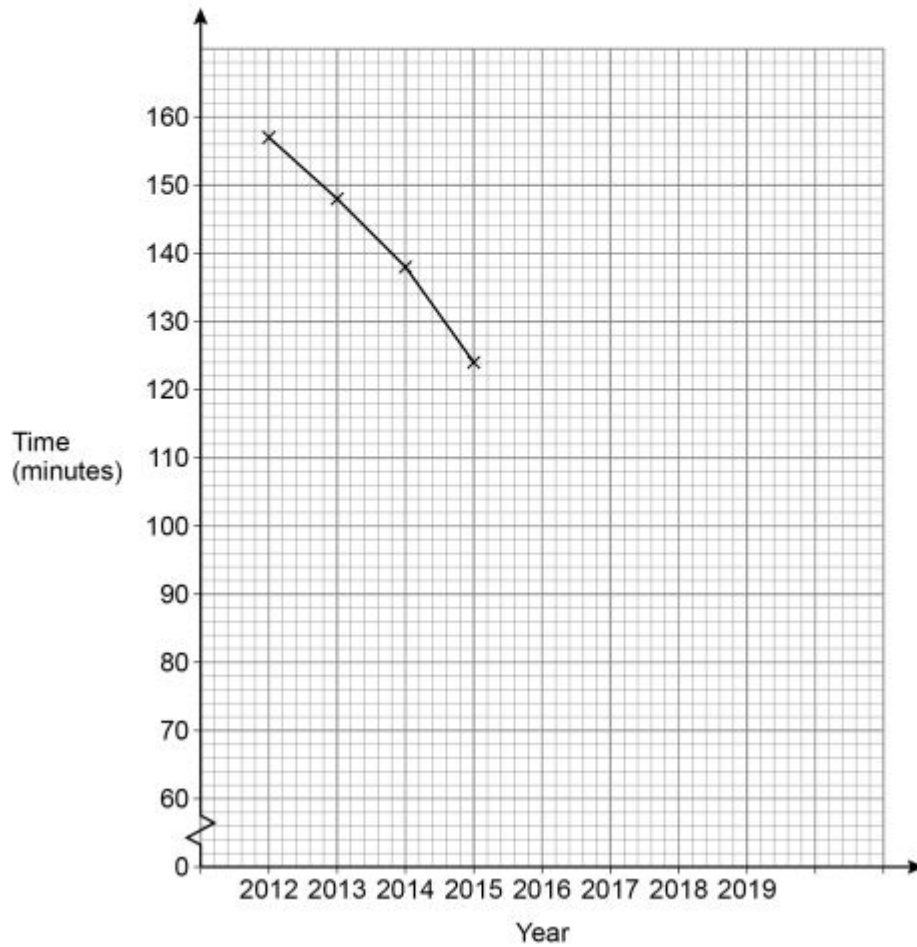
5.

23   The time students spent watching TV was recorded.

The table shows the average daily time per student each year from 2012 to 2019

Year	2012	2013	2014	2015	2016	2017	2018	2019
Time (minutes)	157	148	138	124	113	100	90	82

A time series graph is drawn to represent the data.
The first four points have been plotted.

23 (a)   Complete the graph.

[2 marks]

23 (b)   Use the graph to estimate the average daily time per student in 2020

[1 mark]

_____
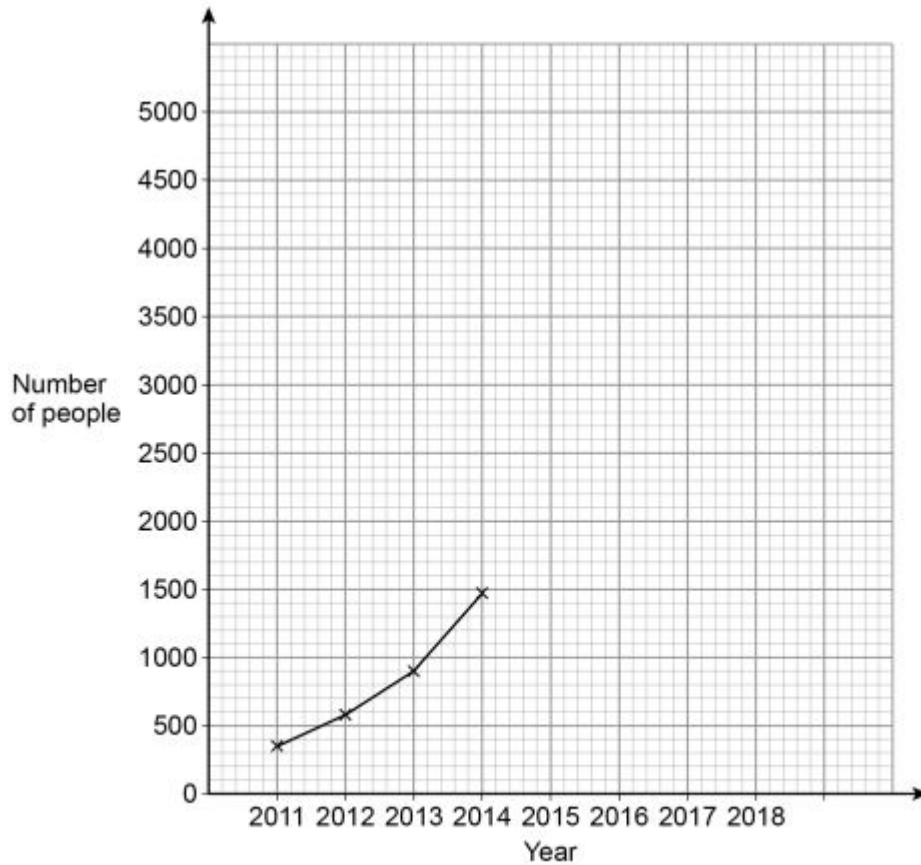
_____

Answer _____ minutes

6.

24   A music festival has taken place each year from 2011

The table shows the number of people who attended each year.

Year	2011	2012	2013	2014	2015	2016	2017	2018
Number of people	350	583	906	1471	2023	2612	3251	3780

The festival organisers draw a time series graph to represent the data.

The first four years have been plotted.

24 (a)   Complete the graph.

24 (b)   Use the graph to estimate the number of people who will attend the festival in 2019

_____

_____

Answer   _____