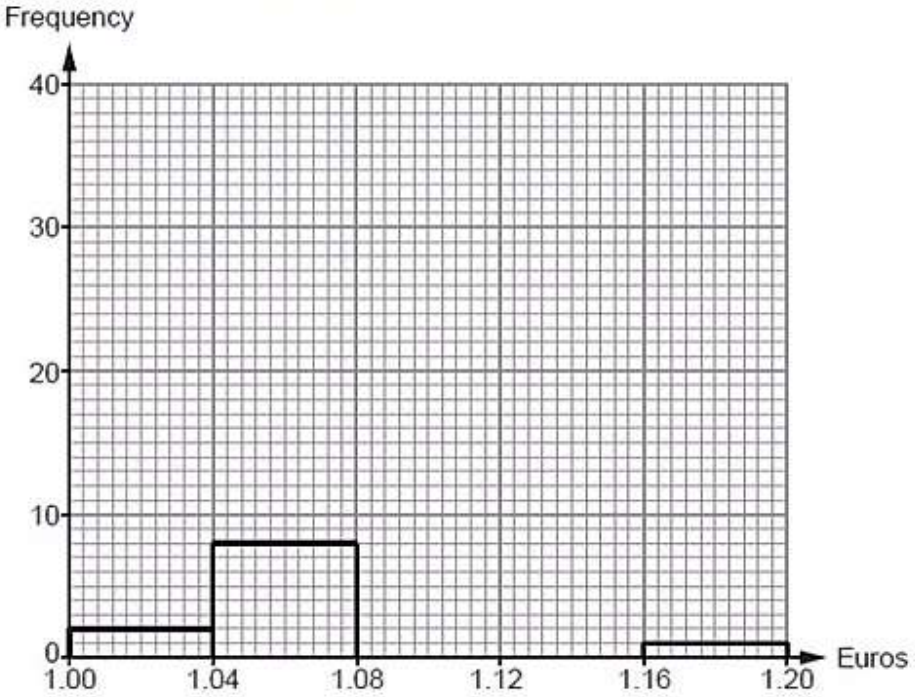
Numeracy Summer 2019 P1 Q3d

(d) Gareth looked at exchange rates for buying euros.
He recorded the exchange rates for the previous 60 days, as shown below.

£1 = b euros	Frequency
$1.00 \leqslant b < 1.04$	2
$1.04 \leqslant b < 1.08$	8
$1.08 \leqslant b < 1.12$	16
$1.12 \leqslant b < 1.16$	33
$1.16 \leqslant b < 1.20$	1

Gareth started to draw a frequency diagram to show this information.



(i) Complete the frequency diagram. [1]

(ii) Which is the modal group?
Circle your answer. [1]

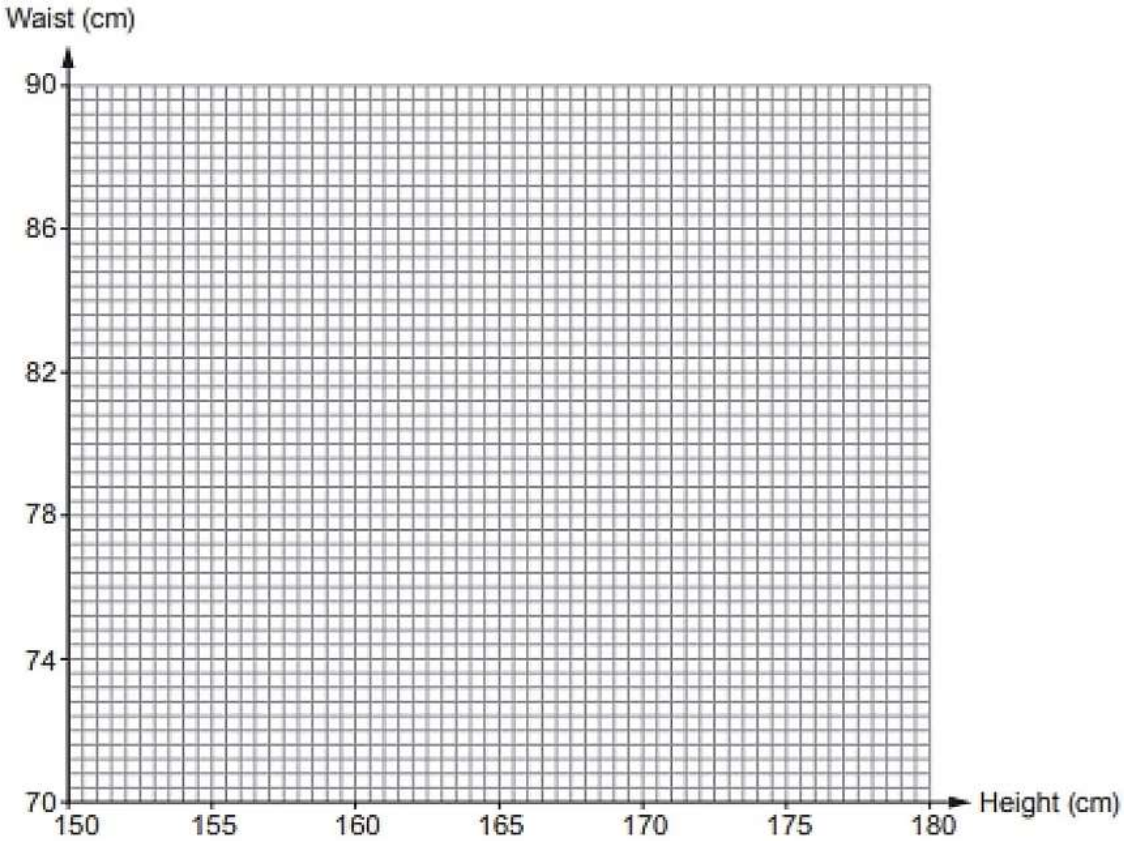
60 $1.08 \leqslant b < 1.12$ 33 $1.12 \leqslant b < 1.16$ 16

Intermediate Numeracy Nov 2017 P1 Q5

Ffion thinks that the taller you are, the greater your waist measurement will be.
She recorded the height and waist measurements, in centimetres, for 6 people.

Height (cm)	170	152	174	155	178	162
Waist (cm)	82	72	86	74	90	78

(a) Draw a scatter diagram to display these measurements.
Use the graph paper below. [2]



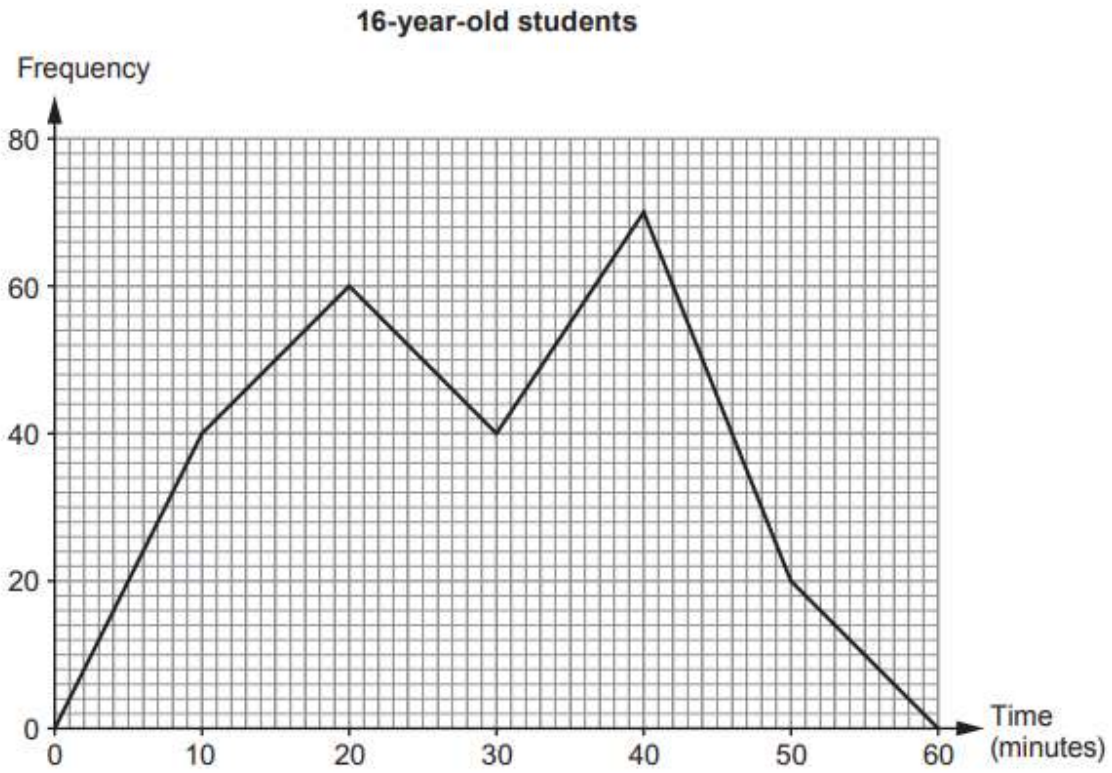
(b) Look at the results that Ffion has recorded for these 6 people.
Do they appear to support her thinking?
Give a reason for your answer. [1]

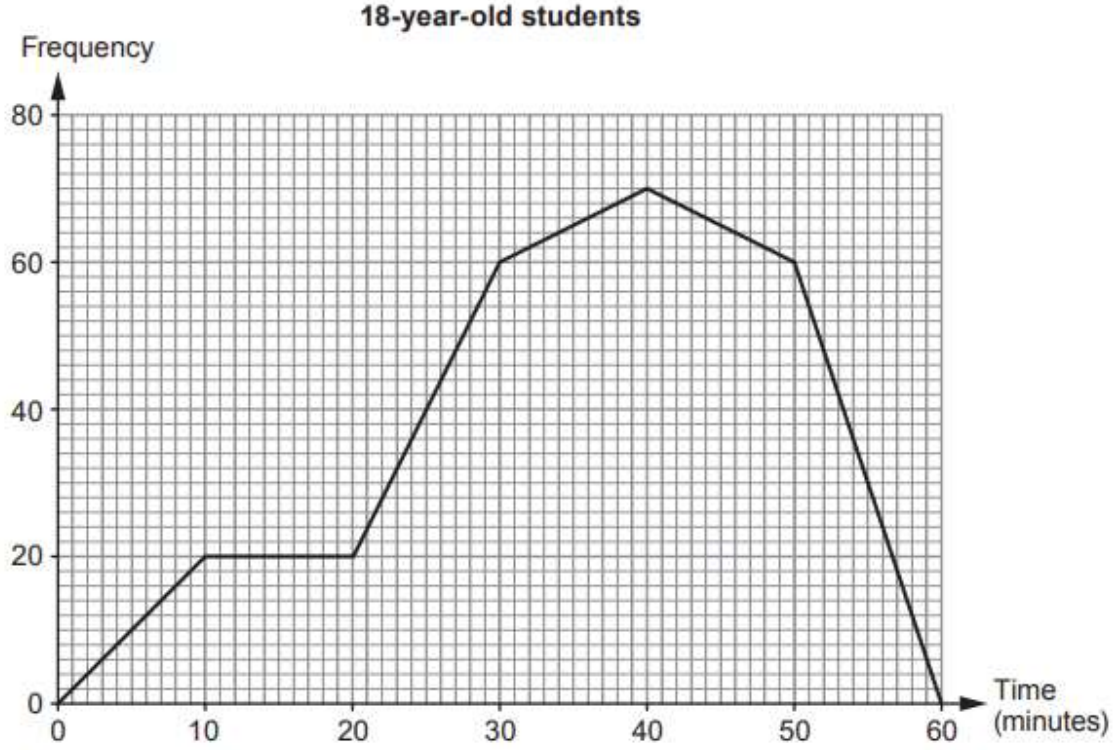
Yes ☐ No ☐ Can't tell ☐

(c) Give **one** reason why using this scatter graph to estimate the waist measurement of other people is unlikely to give reliable results. [1]

Intermediate Numeracy Summer 2017 P1 Q6

A survey was carried out to find how much time a group of 16-year-old students and a group of 18-year-old students spent using social media.
The frequency polygons below, which use equal time intervals, illustrate the results.





(a) How many 16-year-old students took part in the survey?
Circle your answer. [1]

60 70 210 230 2300

(b) How many more 16-year-old students than 18-year-old students spent between 15 minutes and 25 minutes using social media?
Circle your answer. [1]

20 40 60 100 250

(c) Wesley says,

'The 16-year-old students generally spent about the same time using social media as the 18-year-old students.'

Using the frequency polygons, how would you explain to Wesley that his statement is not true? [1]