**10** The table gives some information about the heights of 80 girls.

| Least height | 133 cm |
|---|---|
| Greatest height | 170 cm |
| Lower quartile | 145 cm |
| Upper quartile | 157 cm |
| Median | 151 cm |

(a) Draw a box plot to represent this information.
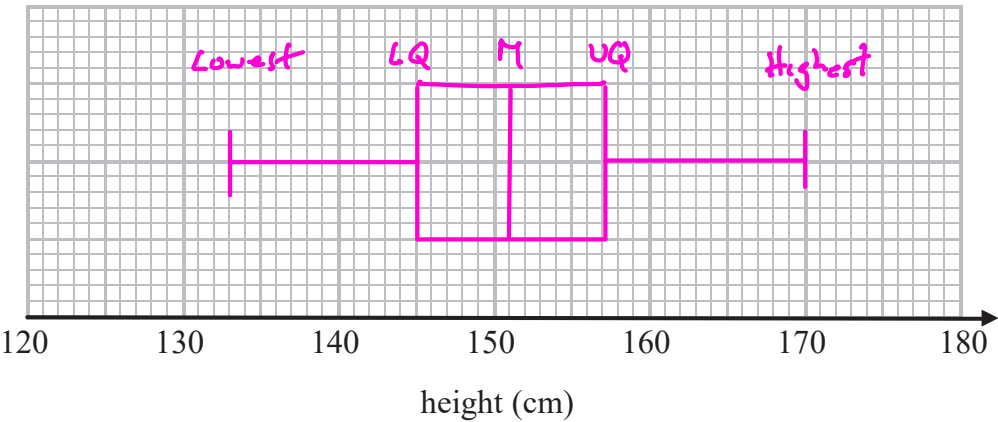


height (cm)

**(3)**

(b) Work out an estimate for the number of these girls with a height between 133 cm and 157 cm.

$\frac{3}{4}$ of data

$\frac{3}{4}$ of 80     =     60 girls
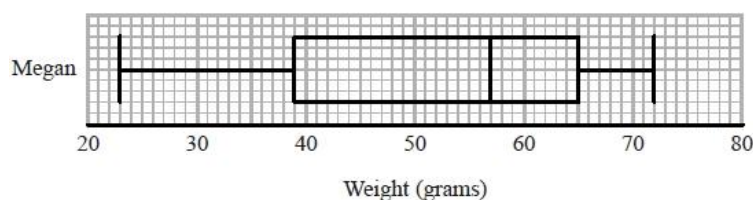
**(2)**

**(Total for Question 10 is 5 marks)**

*P 4 8 8 6 1 A 0 1 2 2 0*

**Q1.**

Megan grows potatoes.

The box plot below shows information about the weights of Megan's potatoes.



Megan says that half of her potatoes weigh less than 50 grams each.
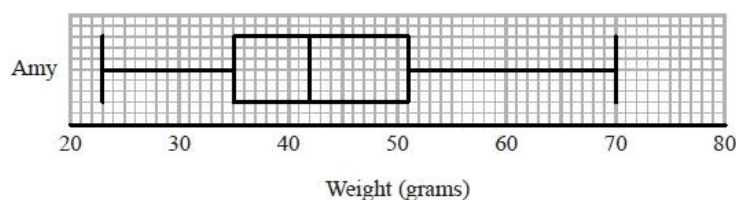
(a)  Is Megan correct?

Give a reason for your answer.

*Wrong  because  median = 57g*
*so half  are  below 57g*

(1)

Amy also grows potatoes.

The box plot below shows information about the weights of Amy's potatoes.



(b)  Compare the distribution of the weights of Megan's potatoes with the distribution of the weights of Amy's potatoes.

*On average Megan's potatoes were heavier than Amy's*
*They had a median weight of 57g compared to 42g*

*Amy's potatoes were a more consistent weight than Megan's*
*They had an IQR of 16g compared to 26g*

(2)

**(Total for question = 3 marks)**