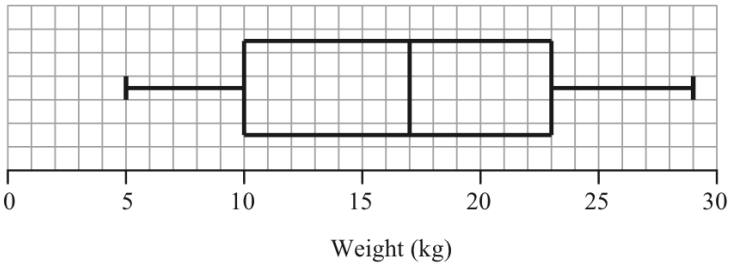
The box plot gives information about the distribution of the weights of bags on a plane.



(a) Jean says the heaviest bag weighs 23 kg.

She is **wrong**.
Explain why.

.....

.....

(b) Write down the median weight.

..... kg

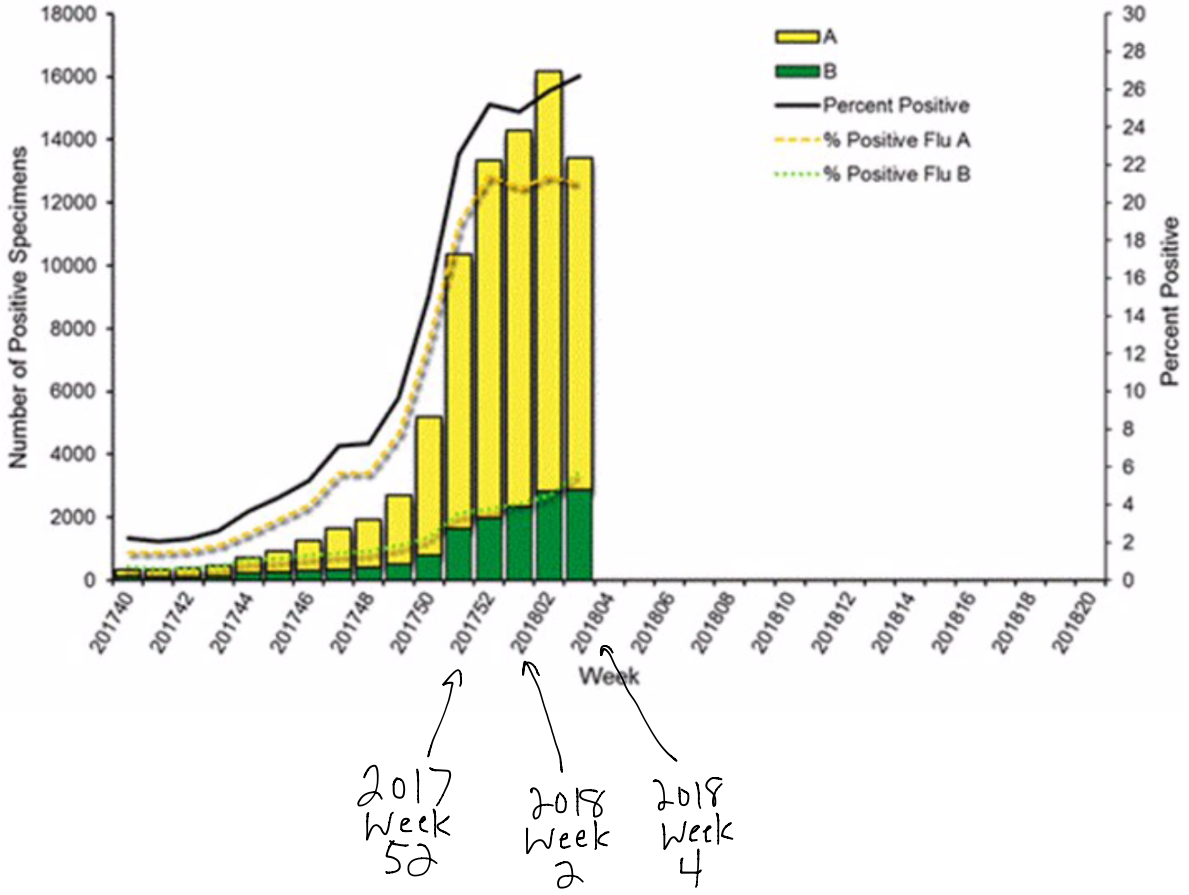
(c) Work out the interquartile range of the weights.

..... kg

There are 240 bags on the plane.

(d) Work out the number of bags with a weight of 10 kg or less.

Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, 2017-2018 Season



A) About how many positive Flu A specimens were there last week (week 3 of 2018)?

B) About how many positive flu B specimens were there last week? (week 3 of 2018)?

C) About what percent of specimens taken last week (week 3 of 2018) tester positive for the flu?

D) Did the number of positive flu A cases increase, decrease, or stay the same from week 2 to week 3 of 2018?

E) Did the number of positive flu B cases increase, decrease, or stay the same from week 2 to week 3 of 2018?

The following are the scores of 12 members of a woman's golf team in tournament play:

89 90 87 95 86 81 111 108 83 88 91 79

a) Calculate the five number summary and draw a Box and Whisker Plot

Round to the nearest tenth if necessary.

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

Box and whisker plot:

_____

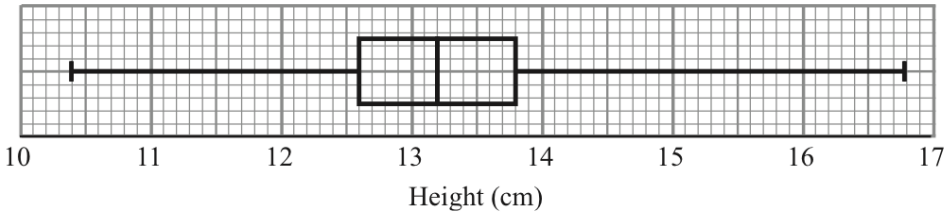
b) Find the Interquartile Range (IQ) and the lower and upper fences.

c) Are there any outliers? _____

d) Constrict a modified box plot:

_____

3. Mr Green measured the height, in cm, of each tomato plant in his greenhouse.
He used the results to draw the box plot shown below.



(a) Write down the median height.

..... cm

(b) Work out the interquartile range.

..... cm

c) Calculate the lower fence and the upper fence and identify any outliers.

d) Construct a modified box plot. Is it possible?

3. Below is the data on maximum daily rainfall in South Bend, Indiana over a 30-year period:

1.88	2.23	2.58	2.07	2.94	2.29	3.14	2.15	1.95	2.51
2.86	1.48	1.12	2.76	3.10	2.05	2.23	1.70	1.57	2.81
1.24	3.29	1.87	1.50	2.99	3.48	2.12	4.69	2.29	2.12

a) Compute the 5 number summary.

b) Are there anv outliers?

c) Verify the outliers Algebraically (Find the upper and lower Fence values)

d) Draw a modified box plot.