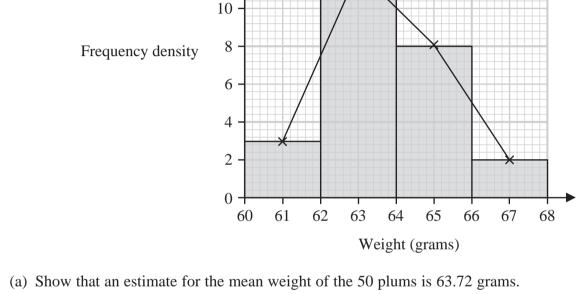
14 - 12 - 10 - 8 - Frequency density

The histogram and its frequency polygon below give information about the weights, in

grams, of 50 plums.



- (a) Show that an estimate for the mean weight of the 30 plants is 03.72 grains.

(b) Calculate an estimate for the standard deviation of the 50 plums.

- Later it was discovered that the scales used to weigh the plums were broken.
- Each plum actually weighs 5 grams less than originally thought.

Give a reason for your answer.

(c) State the effect this will have on the estimate of the standard deviation in part (b).

(1)

(2)

(2)