

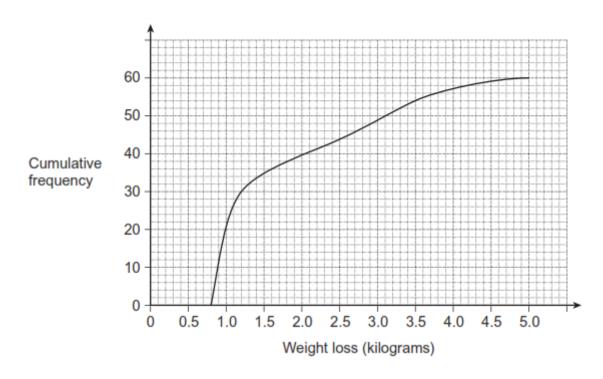
Problem of the Week: Week 3 (Sum2): Year 10: Statistics: Averages, charts and calculations

- interpret and construct tables and line graphs for time series data
- {construct and interpret diagrams for grouped discrete data and continuous data, i.e. histograms with equal and unequal class intervals and cumulative frequency graphs, and know their appropriate use}

Join the Gym

Two groups of people are trying to lose weight.

(a) Group A join a gym.The graph shows information about their weight loss after one month.



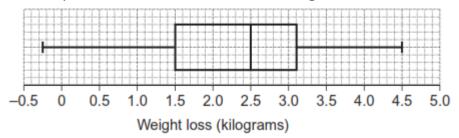
- (i) How many people are in group A?
- (ii) Does everyone in group A lose weight? Write down how you decide.





(b) Group B follow a diet.

The box plot shows information about their weight loss after one month.



Does everyone in group B lose weight? Write down how you decide.

(c) Compare the weight loss of group A with group B.

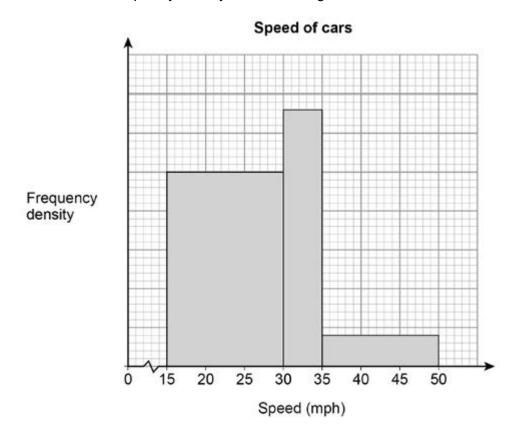




Speeding Cars

The histogram shows information about the speed of cars as they pass a checkpoint.

The scale on the frequency density axis is missing.



The histogram shows information about 480 cars.

- (a) How many cars does the first bar represent?
- (b) Cars with a speed greater than 40 mph are over the speed limit.

Use the histogram to estimate the number of cars that are over the speed limit.

