

Lesson 3

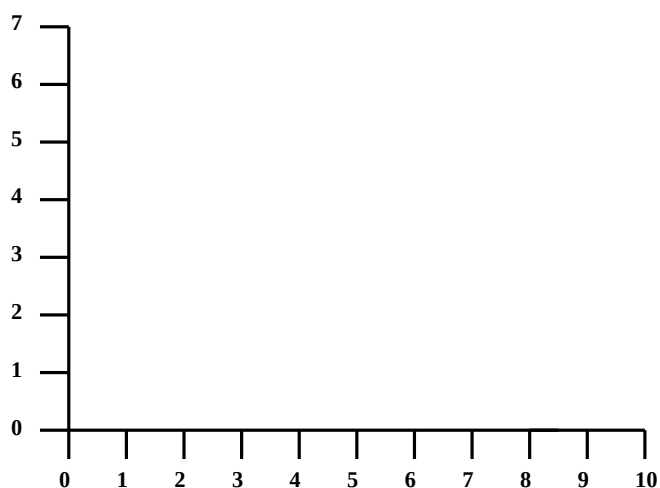
GCSE Mathematics Statistics II : Handelling and Processing Data

3.1 Stepper Graphs

A group of 7 people is given a short ten question test.
Here are the marks scored.

Group A data: 2 4 5 5 6 8 10

We can make a stepper graph of this data.

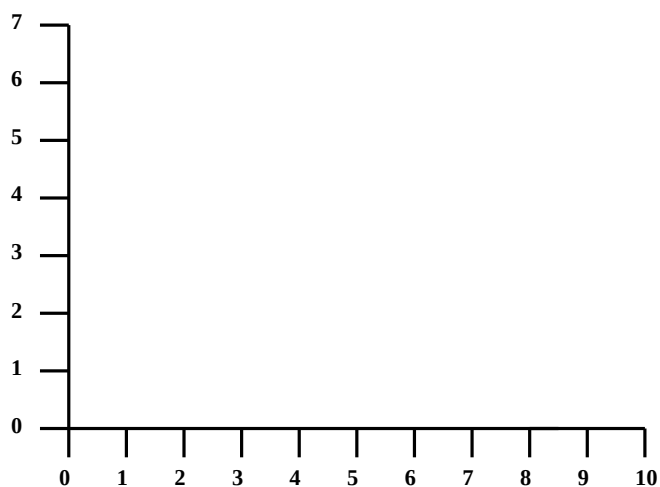


3.2 Exercise

Question 1

Make a stepper graph of the following data.

Group B data: 3 4 4 5 5 5 7



Question 2

- (a) Work out the IQR for the group A data.

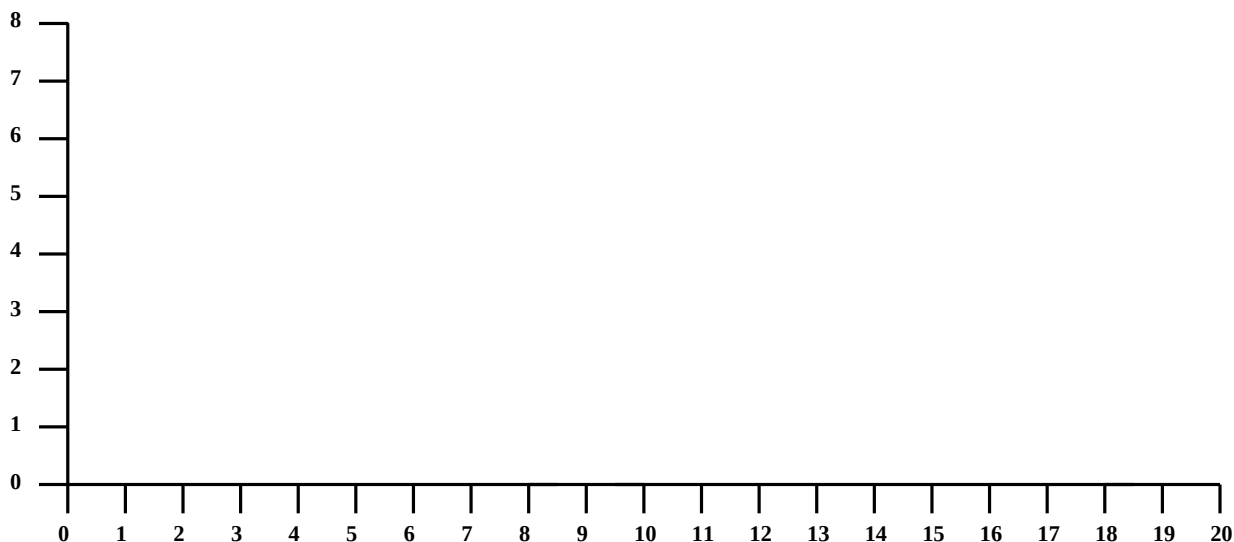
- (b) Work out the IQR for the group B data.

- (c) Use your part (a) and (b) answers to state which group has the **less** spread out data ?

- (d) How could you have spotted which group has the less spread out data from the two stepper graphs ?

Question 3

Make a stepper graph that shows where the prime numbers between 1 and 20 occur.



Several famous mathematicians have worked on the problem of trying to find a smooth line approximate formula for the prime number stepper graph.

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Teachers may obtain detailed worked solutions to the exercises by email from MHHShrewsbury@Gmail.com