

1. Below are the weights, in *kgs*, of 18 adults

Draw a structured stem and diagram

Key: 5 
$$8 = 58kg$$
 (3 marks)

2. Below are the scores of 20 students Maths results

Draw an ordered stem and diagram

Key: 1 6= 16

(3 marks)



3. Below are the ages, in *years*, of 19 adults

a) Draw a structured stem and diagram

b) What is the modal age?



32

c) What is the range of the ages?

d) What is the median age?

$$10th\ value = 52$$

(6 marks)



4. Below are the heights, in *cm*, of 20 adults

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170 172 165 144 166 177 169 138 191 166
171 146 175 197 202 135 189 169 185 193
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a) Draw an ordered stem and diagram

Key: 13 
$$5 = 135 cm$$

b) What is the modal height?

c) What is the median height?

d) What is the range of the heights?

$$202 - 135 = 67 cm$$

(3 marks)



5. Below is an ordered stem and leaf diagram to show the weights, in grams, of 18 apples

Key: 
$$09 \mid 1 = 91 \text{ grams}$$

a) What is the modal weight of an apple?

b) What is the range of the weights of an apple?

$$116 - 91 = 24 \ grams$$

c) An apple is picked at random, what is the probability it is less than 100 grams?

$$\frac{5}{18}$$

(4 marks)



6. Below is an ordered stem and leaf diagram to show the age, in months, of 21 babies

Key: 
$$0 \mid 1 = 1 \text{ month}$$

d) What is the modal age of the babies?

19 months

e) What is the median age of the babies?

14 months

f) Another babies, age 14 months, age was added to the data.

Kieran says this will decrease the median.

Is he correct? Explain your answer.

No, the median will stay the same. The median will be 14 months

(4 marks)