Data Collection 1D

1 a **Quantitative** as heights are numerical.

b **Qualitative** as colours are not numerical.

c **Quantitative** as time is numerical.

d **Quantitative** as shoe size is numerical.

e **Qualitative** as names are not numerical.

2 a **Discrete –** you cannot have a shoe size of 4.78, for example.

b **Continuous** – you can measure the length of a leaf to any degree of accuracy.

c **Discrete –** you can only have whole numbers of people.

d **Continuous –** you can measure the weight of the sugar to any degree of accuracy.

e **Continuous –** you can measure the time taken to any degree of accuracy.

f **Continuous –** you can measure the lifetime of a battery to any degree of accuracy.

3 a It is descriptive rather than numerical.

b It is discrete because you can only have whole numbers of pupils in a class. It is quantitative as it is numerical.

c Weight can take any value in a given range. Therefore, it is continuous. It is quantitative as it is numerical.

4 a 1.4 and 1.5. There are no gaps, therefore the boundaries are the given boundaries of the class.

b $\frac{1.3+1.4}{2}=\frac{2.7}{2}=1.35$ kg

c $1.3-1.2=0.1$ kg