work sheet #1 ch 2

Q1 A teacher records the weights (in kg) of 10 students in her class as follows:

45 50 50 45 60 60 65 70 75 80,

based on this data, find:

[1] mean.

[2] median.

[3] mode.

[4] variance.

[5] standard deviation.

[6] Range.

[7] IQR.

[8] CV%.

Q2 A researcher collected the weights of sample of 10 students in (kg):

55 60 62 58 65 70 59 61 64 63

find 20th percentile for weights.

Q3 Assume we have a data set

3 5 7 8 12 14 15 18

Find IQR.

Q4 Given the following dat set representing the ages of participants in a study:

22 25 27 29 30 31 32 35 40 100

(1) Find Interval of non-outliers.

[2] which of the following values can be Considered as an outlier:

a) 22 b) 30 c) 100 D) 29

Q5 A dat set has mean of $\bar{x} = 10$ and avariance of $s^2 = 4$. If every observation in the data set is increased by 5, what will be the mean and variance of the dat set.

and what is the ~~der~~ coefficient of variation of the original Data.

Q6 For the following ordered set of data

A, 2, 3, 5, B, 9, 10, C, $\overline{x} = 7$.

median = 6

and Mode = 2

Find A, B, and C.