I have a data set consisting of 33 whole-number observations. Its five-number summary is (16, 20, 22, 30, 46).

$$\begin{array}{ccccc} \text{min} & Q_1 & \text{MED} & Q_3 & \text{Max} \\ 16 & 20 & 22 & 30 & 46 \end{array}$$

1. What is the range of the data?

$$\text{max} - \text{min} \qquad 46 - 16 = \boxed{30}$$

2. Tell what the five numbers in the five-number summary represent. Be specific.

$$\text{min} = 16 \qquad \text{MED} = 22 \qquad Q_3 = 30$$
$$Q_1 = 20 \qquad\qquad\qquad\qquad \text{Max} = 46$$

3. How many observations are strictly less than 22?

MED = 22 so half of them
$$33/2 = 16.5 \qquad \text{so } \boxed{16}$$

4. Is it possible that there is no observation equal to 22? Explain briefly.

NO... 33 data points is odd so 22 is exactly in the middle.

5. How many observations are strictly less than 20? 25% of the data!
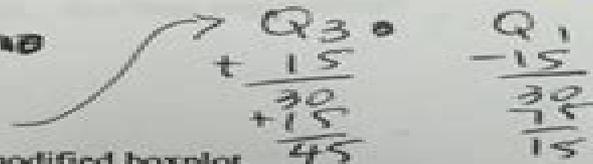$$33 \times .25 = 8.25 \qquad \text{so } \boxed{8 \text{ data points}}$$

6. Is it possible that there is no observation equal to 20? Explain briefly.

yes, there is an even amount of numbers below 22, so you have to average the 2 in the middle to get Q_1.

7. Test for outliers. Are there any outliers? Use 1.5 IQR rule

$$IQR = Q_3 - Q_1$$
$$= 30 - 20 = 10$$
$$1.5 \; IQR$$
$$1.5 \,(10) = 15$$

$$\begin{array}{cc} Q_3 & Q_1 \\ +15 & -15 \\ \underline{\;\;30\;} & \underline{\;\;30\;} \\ +15 & 15 \\ 45 & 15 \end{array}$$

yes, 46 is above 45 so 46 is an outlier.

8. Construct a modified boxplot.

Data set

9. Approximately where is the mean? Briefly explain your reasoning.

The mean is somewhere between 22 & 30. It will be higher than the median because of the outlier pulling it up.

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DJ Losen

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