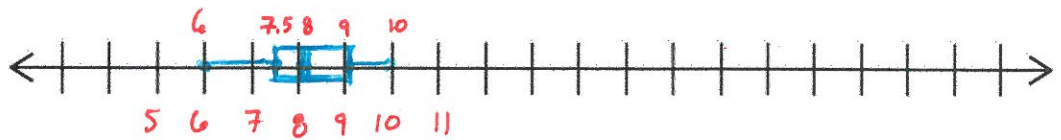


Module 13 - Statistics

#1-9, Ms. Mathy gave a quiz with 10 questions.
Use the results at right to answer the questions.

Score	Frequency
6	2
7	3
8	7
9	7
10	1

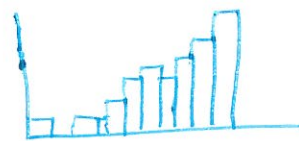
- Mean = 8.1
- Median = 8
- Mode = 8 & 9
- Range = 4
- Standard Deviation = 1.07
- Make a box and whiskers plot of data, labeling all the important points.



- IQR = 1.5
- Is 6 an outlier? Why or why not? *no, can be as low as 4.75* $(1.5)(1.5) = 2.25$
- What percent of Ms. Mathy's class scored 7 points?

$$\frac{3}{20} = 15\%$$

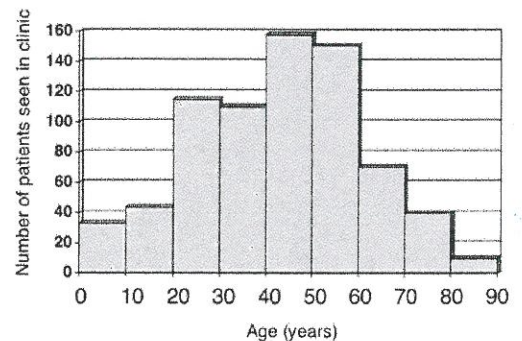
- Sketch a histogram that is skewed left.
 - Make a statement comparing the mean and mode in your sketch,



The mean is less than the mode.

11. Write (2) complete sentences describing the information given on the

- The most common category seen at the clinic was 40-50 year olds.*
- The least common category was 80-90 year olds.*



3. Approximately 690 people were included in this survey.

12. Simplify each radical.

a. $\sqrt{60}$
 $\begin{matrix} \uparrow 10 \\ 6 \cdot 10 \\ 32 \cdot 25 \\ \hline 2\sqrt{15} \end{matrix}$

b. $3\sqrt{20}$
 $\begin{matrix} \uparrow 4 \cdot 5 \\ 45 \\ 2 \cdot 25 \\ \hline 6\sqrt{5} \end{matrix}$

c. $4\sqrt{27}$
 $\begin{matrix} \uparrow 3 \cdot 3 \cdot 3 \\ 3 \cdot 3 \cdot 3 \\ \hline 12\sqrt{3} \end{matrix}$

d. $\sqrt{72}$
 $\begin{matrix} \uparrow 36 \\ 36 \\ 2 \\ \hline 6\sqrt{2} \end{matrix}$

e. $5\sqrt{96}$
 $\begin{matrix} \uparrow 48 \\ 48 \\ 16 \cdot 3 \cdot 2 \\ \hline 20\sqrt{6} \end{matrix}$