

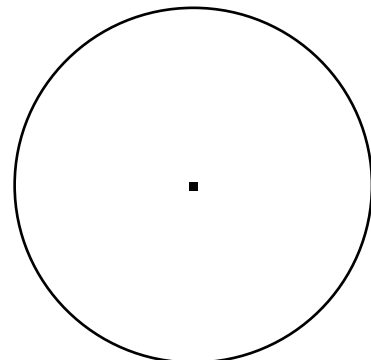
Name _____

Circle all answers

1. Mary recorded the sales for Valentine's Day (morning) as she worked at the local candy store. The tallies are listed below.

Amount	Type
32	caramel smidgens
23	green lollipops
25	peanut butter smidgens (dark)
29	peanut butter smidgens (milk)
36	raspberry cheesecake smidgens
24	red hearts
51	red lollipops
44	white hearts

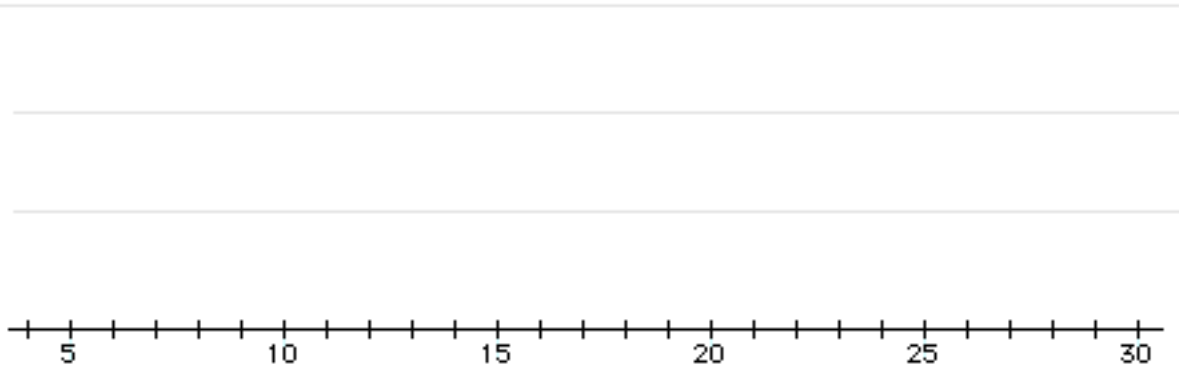
- a) Calculate the mean and standard deviation for the amounts above.
- b) Calculate the median and inter-quartile range (IQR) for the amounts above.
- c) Construct a stem and leaf plot for the amounts above.
- d) Construct a pie chart **and** give the mode for the three groups of candies (lollipops, hearts, and smidgens).



2. The executives of the three major television networks are interested in how they compare in the ratings. The following statistics were calculated from a sample of the network's top 22 shows:

	minimum	maximum	median	Q1	Q3
ABC	7	15.5	13	10	13.5
CBS	7	22.5	14.5	10.5	17.5
NBC	7	25	14	11	16.5

Draw three box and whisker plots on the axis below.



3. The variance IS a valid measure for describing the "spread" of a data set. Why is the standard deviation considered more preferable?
4. In calculating the variance, why is it necessary to square the deviations from the mean?
5. a) What are the desirable features of stem and leaf plots?
- b) Box and whisker plots are commonly used for what purpose?
- c) Why would one choose the median over the mean for averaging?