5.4 Continued

Friday, May 29, 2015 9:36 AM

5.4 Examples Continued

Bob wants to find out if he has normal data for his survey. His results are below.

Interval	10-19	20-29	30-39	40-49	50-59	60-69
Frequency	3	5	17	20	11	4
Midpoint	14.5	24.5	34.5	44.5	54.5	64.5

Age > Smart?"

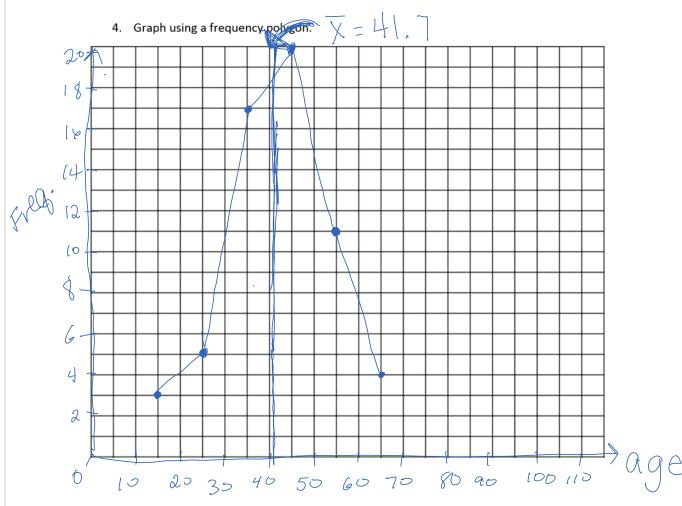
Steps:

- 1. Find the midpoint of the interval for each.
- 2. Calculate the mean.

$$\bar{X} = 41.7$$

M= mean of a population

3. Calculate the standard deviation.



5. Does it look roughly like a bell curve?

188 - it roughly does

Extension:

6. Using the normal curve, what percentage of data falls within one standard deviation (on either side of the mean)?



346+346=68°

7. What value would have 84% of the data?

