

1. For the data set compute the following.

X	3	5	8	10	12
frequency	5	7	1	5	6

$$\text{mean} = 7.5$$

$$\text{median} = 6.5$$

$$\text{mode} = 5$$

$$\text{population standard deviation} = 3.523729$$

$$\text{population variance} = 12.416667$$

$$\text{sample standard deviation} = 3.599516876$$

2. Find the probability of the event E if the odds in favor of E are 6 to 11.

$$\frac{6}{6 + 11} = \frac{6}{17}$$

3. Find the odds in favor of E if the  $P(E) = 0.35$

$$\frac{.35}{.65} = \frac{7}{13}$$

Answer: 7 to 13