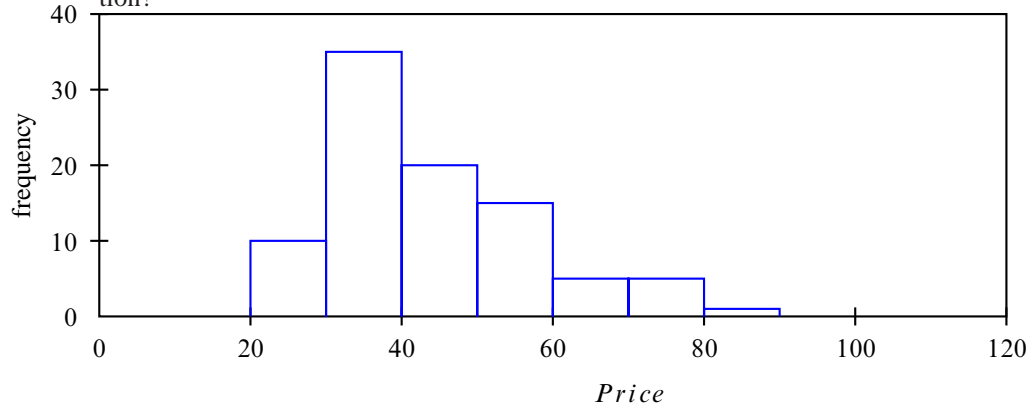


1. Consider the following distribution for prices of running shoes.

(a) Which of the following values, 40 or 45, would best represent the mean for the distribution and which would best represent the median of the distribution?



(b) Suppose that the largest observation was incorrectly entered, as shown below.

- i. The mean would (increase, decrease, stay the same). (Circle the best answer.)
- ii. The median would (increase, decrease, stay the same). (Circle the best answer.)
- iii. The standard deviation would (increase, decrease, stay the same). (Circle the best answer.)
- iv. The range would (increase, decrease, stay the same). (Circle the best answer.)
- v. The interquartile range would (increase, decrease, stay the same). (Circle the best answer.)

