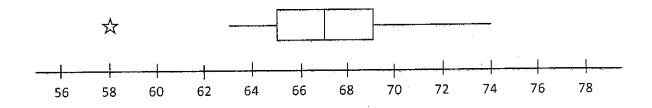
- 1. mean ≈ 66.9 inches median = 67 inches mode = 68 inches
- 2. low = 58 $Q_1 \approx 65$ median = 67

3. 58 is an outlier.

 $Q_3 = 69$ high = 74

4.



- 5. a. 7
  - b. about the 42<sup>nd</sup> percentile
  - c. 75th percentile

6. a.  $\bar{x} \approx 88.6$ 

$$\sigma \approx 10.5$$

- b. 13
- C. 3
- 7. Find the standard deviation for the data set by hand: 22, 24, 25, 27, 27

$x-\bar{x}$	$(x-\bar{x})^2$
-3	9
-1	1
0	0
2	4
2	4

$$\bar{x} = 25$$

$$\sigma = \sqrt{\frac{18}{5}} \approx 1.9$$

8. z = 0.375

- a. continuous quantitative 10.
- a. skewed to the right 11.

b. categorical

b. symmetrical

9.  $z \approx -1.42$ 

- discrete quantitative
- The type of bias in this situation is voluntary response. Only the students who feel strongly about the food will 12. take the time to fill out and turn in the survey. A better way would be to find a random sample of all the students in the school and have them fill out the survey.
- b. 81.5% 13.
  - c. 84%

- d. about 6
- e. about 156

- a. about 16% 14.
  - b. about 6