1.

14 12 11 10 8 8 6

Mean = 9.86

Median = 10

Mode = 8

Variance = sum((14-9.86 \*\* 2), (12-9.86 \*\* 2), (11-9.86 \*\* 2), (10-9.86 \*\* 2), 8-9.86 \*\* 2), (8-9.86 \*\* 2), (6-9.86 \*\* 2)) / 7 – 1 = 17.14 + 4.58 + 1.3 + .02 + 3.46 + 3.46 + 14.9 / 6 = 6.9

Standard Deviation = variance \*\* 0.5 = 2.63

Standard Error = Standard Deviation / (n \*\* 0.5) = 2.63 / 2.65 = .99

2.

Either the mean or the median as they are within the standard error.

3.

14 12 11 10 8 8 7

Mean = 10

Median = 10

Mode = 8

Variance = 17.14 + 4.58 + 1.3 + .02 + 3.46 + 3.46 + 8.18 / 6 = 5.78

Standard Deviation = 2.40

Standard Error = .91

The mean and the median are the same and the standard error and deviation have become lower.

4.

14 12 11 10 8 7 1

5.

It’s impossible to say without knowing what percentage of adult Americans were readers of those magazines.