

- 11.** 26.2, 30.5, 33; the median, since there is an outlier in this set
- 12.** 8.76, 8.8, no mode; the mean, since there is no outlier
- 13.** 94
- 15.** The correct range is 8 because the range is defined as the difference between the highest and lowest values.
- 16.** Since an outlier is either much larger or much smaller than most of the data, it causes the range to get larger.
- 18. a.** Plant A: 5.8, 5.8, 5.4, 1.2; Plant B: 5.6, 5.5, no mode; 2.9
- b.** Plant A: mean as there is no outlier; Plant B: either mean or median, if you consider 7.2 to be an outlier.
- c.** The greater data values are in the bottom rows of a stem-and-leaf plot. Since more of the data are concentrated near the bottom of the plot for Plant A than for Plant B, Plant A has the greater mean.
- 19.** 18.5, 20.4, 20.4, 13.2
- 22.** 2.8 m, 2.8 m, 2.8 m and 2.9 m, 0.7 m
- 23.** No; because one salesperson earned \$150,000, the mean was \$47,500, but a better indicator might be the median, which was only \$37,500.
- ~~**24.** 46.4 mi/h~~
- 25.**  $\frac{20}{3}x$ ,  $6x$ ,  $4x$ ,  $7x$