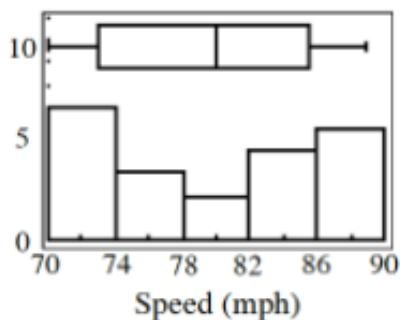


11-126. See solution graph below. The shape is double-peaked and symmetric. There are no outliers. The mean speed is 79.5 mph with a standard deviation of 6.8 mph.



11-127. Let x = the amount of candy (pounds); $8x + 10(6) = 8.5(x + 6)$, 18 pounds

11-128. These triangles are congruent by ASA \cong . Translate point T to point A , then rotate $\triangle TP'Q'$ about point T so that \overline{AB} and $\overline{T'P''}$ coincide.

11-129. See below:

- 9
- 10
- $x = -2$ or 8

11-130. $(-2.9, 2.1)$ and $(3.8, 15.5)$

11-131. See below:

- $x = 13$
- $x = 3$
- $x < -\frac{2}{3}$ or $x > 2$

11-132. See below:

- 94 years
- From 1966 to 1999, 429 marbles were added, which means there were 13 marbles added per year.
- 17
- $t(n) = 17 + 13n$
- In the year 2058, when the marble collection is 153 years old, it will contain more than 2000 marbles.

11-133. See below:

a. $x = 1$

b. $x = -1$

c. $p = \frac{3}{2}$

d. $w = \frac{v+2}{u}$

11-134. $y = 6x - 2$