

Ready, Set, Go!

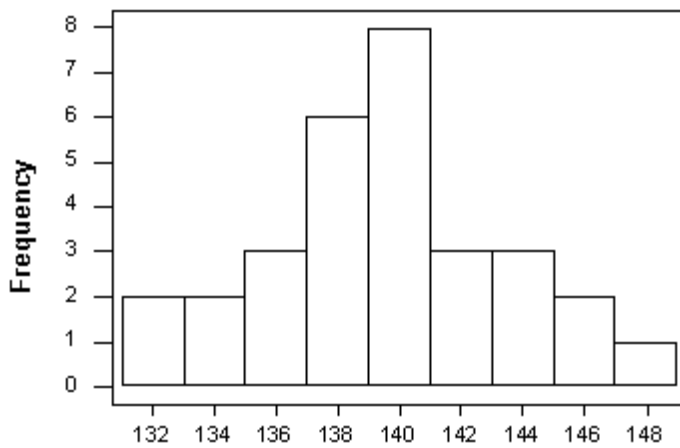


<http://www.flickr.com/photos/pdgoodman>

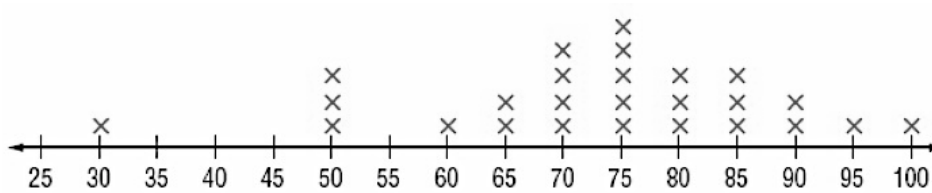
Ready

Topic: Identifying spread.

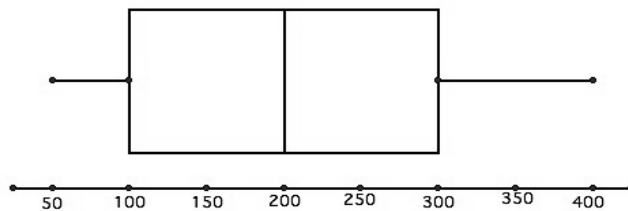
1. Describe the spread in the histogram below.



2. Describe the spread in the line plot below.



3. Describe the spread in the box and whisker plot.



Set

You are given information about $f(x)$ and $g(x)$. Rewrite $g(x)$ in translation form:

$$g(x) = f(x) + k$$

4. $f(x) = 7x + 13$
 $g(x) = 7x - 5$

$$g(x) = \frac{\quad}{\text{Translation form}}$$

5. $f(x) = 22x - 12$
 $g(x) = 22x + 213$

$$g(x) = \frac{\quad}{\text{Translation form}}$$

6. $f(x) = -15x + 305$
 $g(x) = -15x - 11$

$$g(x) = \frac{\quad}{\text{Translation form}}$$

7.

| x | f(x) | g(x) |
|----|------|------|
| 3 | 11 | 26 |
| 10 | 46 | 61 |
| 25 | 121 | 136 |
| 40 | 196 | 211 |

$$g(x) = \frac{\quad}{\text{Translation form}}$$

8.

| x | f(x) | g(x) |
|----|------|------|
| -4 | 5 | -42 |
| -1 | -1 | -48 |
| 5 | -13 | -60 |
| 20 | -43 | -90 |

$$g(x) = \frac{\quad}{\text{Translation form}}$$

9.

| x | f(x) | g(x) |
|-----|------|-------|
| -10 | 4 | -15.5 |
| -3 | 7.5 | -12 |
| 22 | 20 | 0.5 |
| 41 | 29.5 | 10 |

$$g(x) = \frac{\quad}{\text{Translation form}}$$

Go

Topic: Vertical and horizontal translations

10. Use the graph of $f(x) = 3x$ to answer the following questions.

- Sketch the graph of $g(x) = 3x - 2$ on the same grid.
- Sketch the graph of $h(x) = 3(x - 2)$.
- Describe how $f(x)$, $g(x)$, and $h(x)$ are different and how they are the same.

d. Explain in what way the parentheses affect the graph. Why do you think this is so?

