ANSWER KEY: Worksheets 6.1, 6.2, 6.3

Worksheet 6.1: "Veggie-Tables"

1.

Sweet Potato Variety	Tons per Acre Harvested by Farm
Tuber-ific	3, 6, 11, 11, 19, 27, 34
Terrific Taters	0, 3, 8, 16, 16, 18, 22, 42

2. Tuber-ific range: 31 (34 – 3)
   Terrific Taters range: 42 (42 – 0)

NOW TRY THIS: The two farms reporting 3 tons and 34 tons would not affect the range because these results are within the current range. The farm reporting 0 tons would increase the range from 31 to 34 (34 – 0).

Worksheet 6.2: "Those Are Some Mean Brussels Sprouts!"

1. First, rearrange the data in ascending order:

Brussels Sprouts Variety	Yield per Acre (in Pounds)
Belgian Boy	0; 200; 200; 800; 1,200; 1,500; 1,595
Green Goddess	400; 450; 700; 850; 900; 900; 1,200; 1,600
Jade Giant	200; 300; 500; 500; 700; 1,200; 1,200; 2,600

Belgian Boy:
   Mean: 785 [(0 + 200 + 200 + 800 + 1,200 + 1,500 + 1,595)/7]
   Median: 800
   Mode: 200
   Range: 1,595 (1,595 – 0)

Green Goddess:
   Mean: 875 [(400 + 450 + 700 + 850 + 900 + 900 + 1,200 + 1,600)/8]
   Median: 875 [(850 + 900)/2]
   Mode: 900
   Range: 1,200 (1,600 – 400)

Jade Giant:
   Mean: 900 [(200 + 300 + 500 + 500 + 700 + 1,200 + 1,200 + 2,600)/8]
   Median: 600 [(500 + 700)/2]
   Mode: 500 and 1,200
   Range: 2,400 (2,600 – 200)

2. Although Jade Giant has the highest mean, Green Goddess has the highest median and is the better choice. Jade Giant's mean is skewed by one large result.

NOW TRY THIS: 905 pounds (800 x 8 = 6,400. Prior mean of 785 x 7 = 5,495. 6,400 – 5,495 = 905.)

Worksheet 6.3: "Stuck in the Middle"

1.

Vegetables	Mean	Median	Mode
Daikon Radishes	$250	$250	$250
Sweet Potatoes	$350	$375	$500
Baby Arugula	$375	$450	none
Heirloom Rutabagas	$300	$100	$100

2. Median would be the best measure to use because the onetime order of $1,200 inflated the mean.

3. Sweet potatoes and baby arugula have the highest median sales.

NOW TRY THIS: The range for sweet potatoes = $400 while the range for rutabagas = $1,100. This indicates that there is more variability in the sales of rutabagas and greater dependability in the sales of sweet potatoes, especially since median sales are higher for sweet potatoes.