

# Answer Key

Name \_\_\_\_\_ Date \_\_\_\_\_  
Teacher \_\_\_\_\_

## 6th Grade Math (Statistics) Enrichment #6 (Lesson 28-3)

### Ready:

1. Mr. Brown told his class that he would reward the class if students worked hard for a week. Below is a chart of the class data. Should the students use the mean or the median to encourage Mr. Brown to reward the class? Explain the reasoning.

median = 18

mean =  $\frac{13 + 15 + 18 + 26 + 27}{5} = 19.8$

The students should use the mean because it is greater and will support their argument.

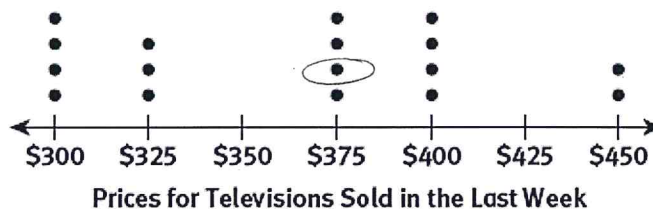
Day	Number of Students Completing Work
Monday	13 13
Tuesday	15 15
Wednesday	18 18
Thursday	26 26
Friday	27 27

2. The store manager promised to sell a television for the typical price. To get the best deal, is mean or median the best measure of central tendency? Explain your reasoning.

median = \$375

mean  $\approx$  \$363

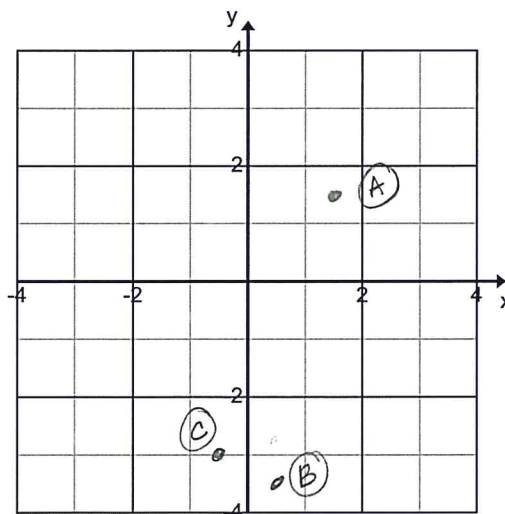
The mean will be the best measure to use so that a customer receives the best deal.



### Set:

3. Graph the following points in the correct quadrant of the coordinate plane.

- (a) (1.5, 1.75)
- (b)  $(\frac{1}{2}, -3\frac{1}{2})$
- (c)  $(-\frac{1}{2}, -3)$



4. How many numbers between 200 and 400 begin or end with 3? 110

300's  $\Rightarrow$  100

203, 213, 223, 233, 243, 253, 263, 273, 283, 293 10

Go:

5. A group of friends are planning to sell candy bars for a school fundraiser. They conduct a small survey among 30 people, asking the question: How many candy bars do you eat in a week?

Here are the results:

Male 1 bar	Female 4 bars	Male 5 bars	Female 1 bar	Male 2 bars	Male 25 bars
Male 13 bars	Female 0 bars	Male 2 bars	Male 9 bars	Male 6 bars	Female 16 bars
Female 14 bars	Male 10 bars	Male 19 bars	Male 11 bars	Female 1 bar	Male 0 bars
Male 1 bar	Male 3 bars	Female 10 bars	Male 25 bars	Female 16 bars	Male 13 bars
Female 30 bars	Male 8 bars	Male 2 bars	Male 0 bars	Male 28 bars	Female 0 bars

- (a) Draw a graph to compare the results for males and females.  
 Males: 1, 5, 2, 25, 13, 2, 9, 6, 10, 19, 11, 0, 1, 3, 25, 13, 8, 2, 0, 28  
 Females: 4, 1, 0, 16, 14, 1, 10, 16, 30, 0

- (b) Write one conclusion (comparing males and females) that is supported by the data. Show any work you do.

The mean for the boys is 9.15 bars each.  $\left(\frac{183}{20}\right)$   
 The mean for the girls is 9.20 bars each.  $\left(\frac{92}{10}\right)$   
 They are almost the same.

