Unit 1 Enrichment

Directions: Answer each of the questions in this packet and **show your work**. You may use your notes, ask questions, work with another student, or go to the math lab to get help on this. You will be given a quiz based on these questions in which you will have to explain or interpret your answers.

1.) A marine biologist weighed sea otters. The results are shown below.

Sea Otter	Weight (pounds)
1	70.1
2	99.0
3	85.9
4	79.4
5	73.8
6	62.7

What is the median sea otter weight?

A) 76.6 pounds   B) 78.5 pounds   C) 79.4 pounds   D) 82.7 pounds

2.) The scores Terrence got in the last ten video games he played are listed below.

400   900   -250   -150   500   650   1,200   -100   1,350   950

What is the range of these scores?

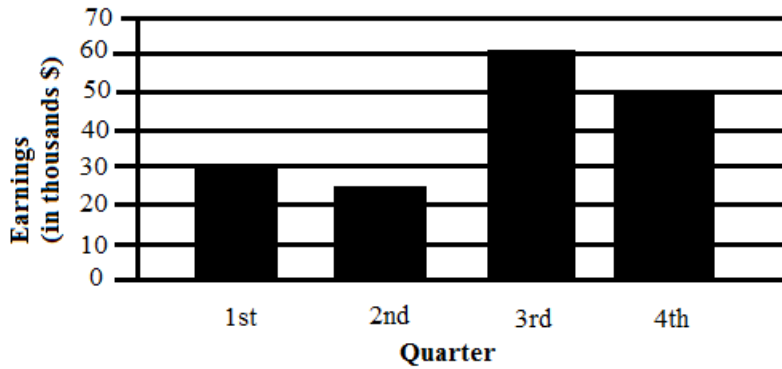A) 1,100   B) 1,200   C) 1,500   D) 1,600

3.) Michael's scores in 7 basketball games are shown below.

18, 15, 20, 14, 12, 17, 18

Michael has one more game and wants to average 17 points for all 8 games. How many points does he need to score in his last game?

A) 14   B) 17   C) 20   D) 22

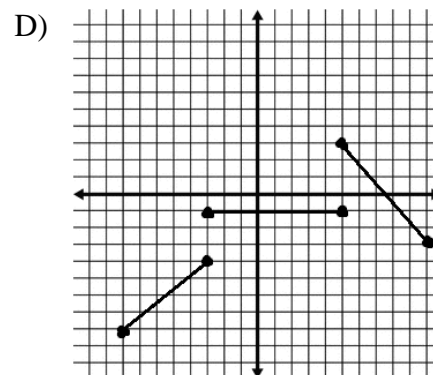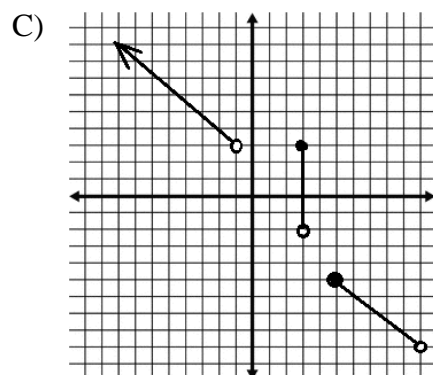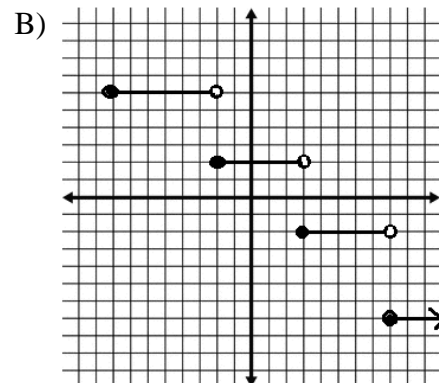**4.)** This bar graph shows how much Day's Market Stand earned in 2012.
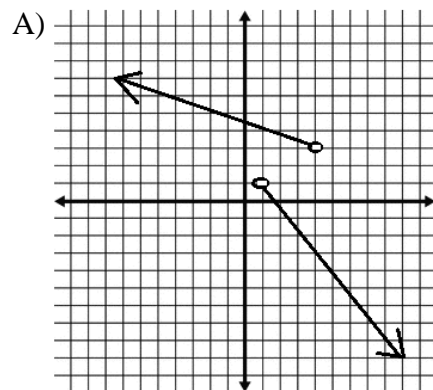

What is the mean amount Day's Market Stand earned per quarter in 2012?

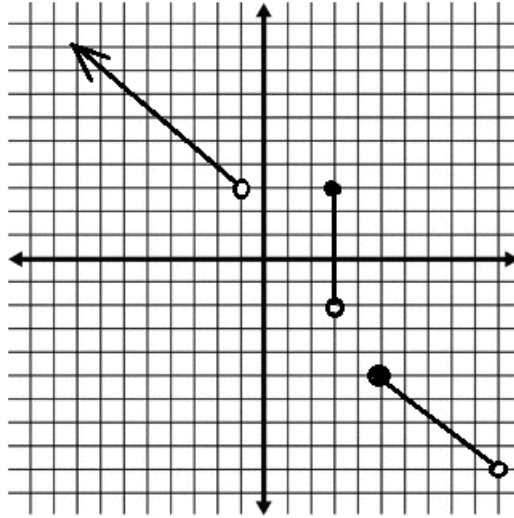   A) $38,000   B) $41, 250   C) $44,500   D) $49, 00

5.) Omer counted the number of characters in 60 text messages and recorded the data. He found that the lower quartile of the data was 31, the median was 55, and the upper quartile was 96. Which is the best estimate of the number of text messages that had between 31 and 55 characters?

      A) 15   B) 24   C) 30   D) 45

6.) Which of the following graphs is a function?

A)

B)

C)

D)

Use the graph below to answer #7-10.

7.) Which of the following values is NOT in the range of the graph?

      A) -7   B) -2   C) 3   D) 12

8.) Which of the following values is in the domain of the graph?

      A) -1   B) 2   C) 5   D) 10

9.) Which of the following values is in the range of the graph?

      A) 3   B) -2   C) -4   D) -10

10.) Which of the following values is NOT in the domain of the graph?

      A) -15   B) 0   C) 3   D) 8