



Chapter 1 Test | Algebra 1

Name | _____

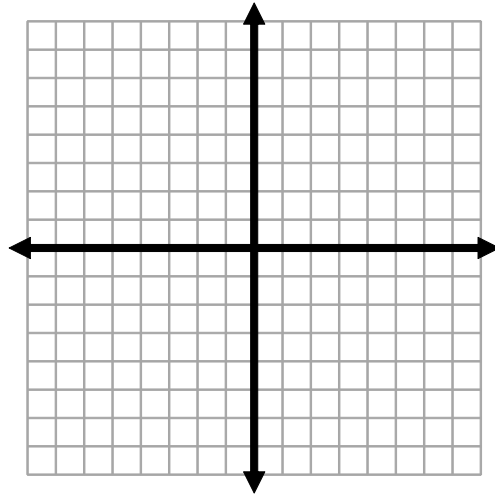
Date | _____ P | _____

7 William wanted to plot the first letter of his name on the graph paper so he began by connecting points: A (6, 3) B(4, -5) C(1, -1) D(-2, -5) in order.

- b
- c
 - a. Plot and label points A, B, C, and D.
 - b. Finish William's drawing by determining the location of point E. Plot it and write the coordinates of point E below.

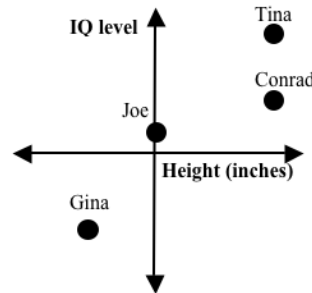
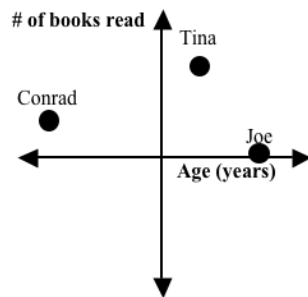
Point E (_____ , _____)

- c. Explain how you know whether or not the origin is part of the graph below:



8 Study these graphs below then answer the questions below.

- b
- c



- a. Something looks wrong with some of the data points! Explain why two points (people) do not make sense.

- b. Which quadrant is Gina in? Circle one: I II III IV V

- c. Who is tallest?

Conrad
 Joe
 Tina
 Conrad and Tina
 Conrad and Joe

- d. Which Statement is true? Circle one:

- A. The person who has the highest IQ is also the oldest.
- B. The person who has read the least number of books is the tallest.
- C. Conrad and Tina are the same height but have read a different number of books.
- D. The person who is the oldest is also the tallest.
- E. None of the above are true.



Chapter 1 Test | Algebra 1

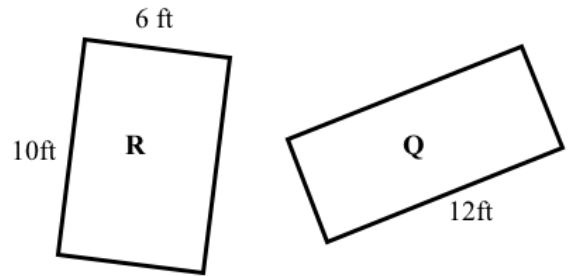
Name | _____

Date | _____ P | _____

9 Use these rectangles to answer the questions below. Show ALL work.

a. What is the area and perimeter of "R"?

area = _____ perimeter = _____



b. "Q" has an area of 60. What is the perimeter of "Q"?

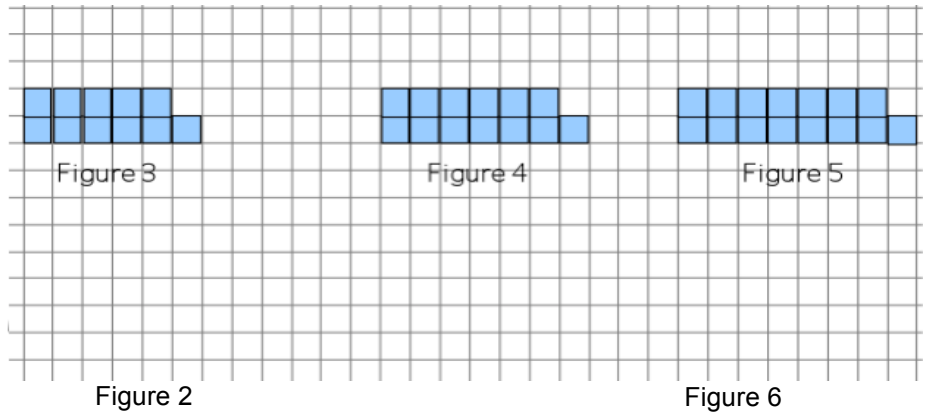
perimeter = _____

10 Use these patterns to answer the questions below.

a. Draw figure 2 AND figure 6 on the graph to the right.

b

c



b. Write 2-3 complete sentences that describe how the pattern is changing.

c. Complete the table for figures 1 through 7 that includes the figure number and the number of tiles in each figure.

| | | | | | | | |
|---------|---|---|----|----|----|---|---|
| Figure | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| # Tiles | | | 11 | 13 | 15 | | |

d. How many tiles would figure 10 have? Explain how you got your answer and circle your final answer.

e. How many tiles would figure 100 have? Explain how you got your answer and circle your final answer.



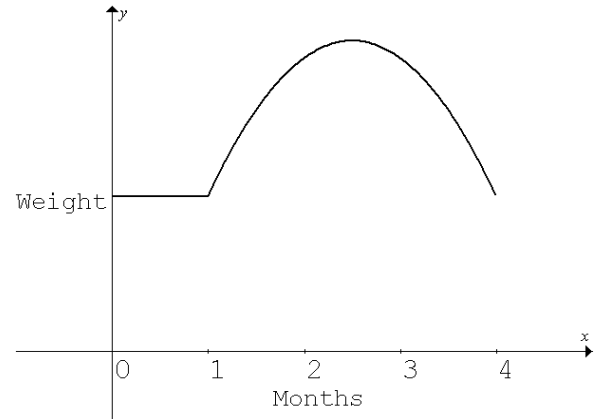
Chapter 1 Test | Algebra 1

Name | _____

Date | _____ P | _____

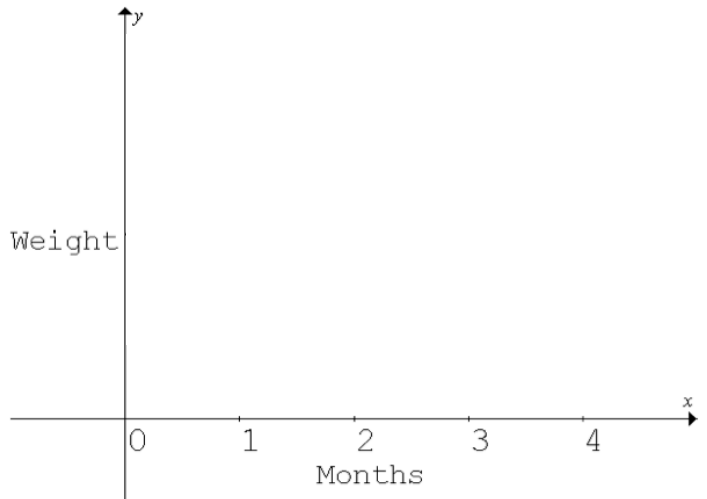
- 11** Cookie Monster decided to try a new diet. He followed the diet for four months and kept track of the results on the graph below. Explain how Donovan did on his diet over the 4 months. In other words, describe the graph.

b



- 12** Snoopy had different results with his diet. He quickly lost a lot of weight the first 2 months and then kept it off for 1 month. However, the last month, he gained a small amount of weight. Draw a new graph representing Snoopy's weight over time.

a



- 13** Leonard earned the following chapter test scores during the first semester of freshman year:

a

78 65 92 90 82 75

He would like to have a test average of 90%. If he has **one test left to take**, can he earn an average of 90%?

Explain your reasoning (and show all your work) and whether this is possible to achieve if the maximum score for a test is 100.