Applications Name_____
Algebra 1

Raising Money for a Class Trip

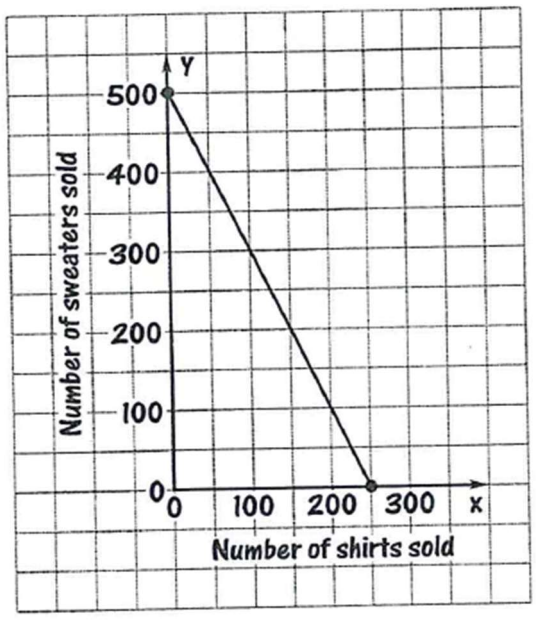
Your class is selling shirts and sweaters displaying your school logo to raise money for a field trip. Your class needs to raise $1000 to cover the cost of the trip. For each shirt sold, $2 is raised for the trip. For each sweater sold, $4 is raised for the trip.

1. Write an equation that represents the number of shirts and sweaters sold and the amount of money your class needs to raise for the field trip. Let *x* represent the number of shirts sold and let *y* represent the number of sweaters sold.

2. Find the x-intercept. What does it represent?

3. Find the y-intercept. What does it represent?

4. A classmate makes a quick graph of your equation. The graph is shown at the right. Is the graph correct? Why or Why not? If not, use the x- and y-intercepts to make a quick graph.



5. Determine three possible numbers of shirts and sweaters to sell that will make your class reach its goal.

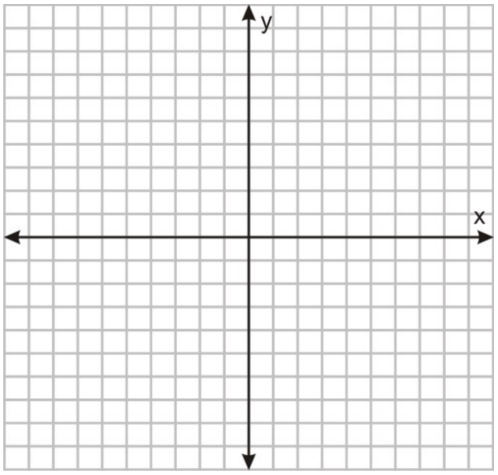
6. Assume your school has 500 students. How many shirts and sweaters, do you think your class can reasonably expect to sell and still reach its goal? Why?

If your class can raise a total amount of $1500, your class can go on two field trips.

7. Write a linear equation that represent the numbers of shirts and sweaters that your class needs to sell in order to raise enough money for both field trips.

8. Find the x- and y- intercepts. What does each intercept represent?

9. Use the x- and y – intercepts to make a graph.



10. Determine three possible numbers of shirts and sweaters to sell that will make your class reach its goal.

11. Assume your school has 500 students. How many shirts and sweaters do you think your class can reasonably expect to sell and still reach its goal? Why?