

**Linear System Review**

Name: \_\_\_\_\_

**Park Fencing**

Period: \_\_\_\_\_

Two groups of workers are building fences along opposite sides of the Park.

1. Group A is building a wood fence. It is already 60 feet long. This group is able to build 12 feet of fencing per hour.

a. Make a table to show how the length of fence will change: *(Hint: Use increments that are on the graph below.)*

b. Write an equation to fit the situation:

\_\_\_\_\_

3. Graph both equations.  
*(Remember to label the axes and your lines.)*

4. What scale has been used for the horizontal axis? one unit = \_\_\_\_\_

5. What scale has been used for the vertical axis? one unit = \_\_\_\_\_

6. When will the chain-link fence be 339 feet long?

\_\_\_\_\_

7. When will the 2 fences be the same length? \_\_\_\_\_ and how long will they be?

\_\_\_\_\_

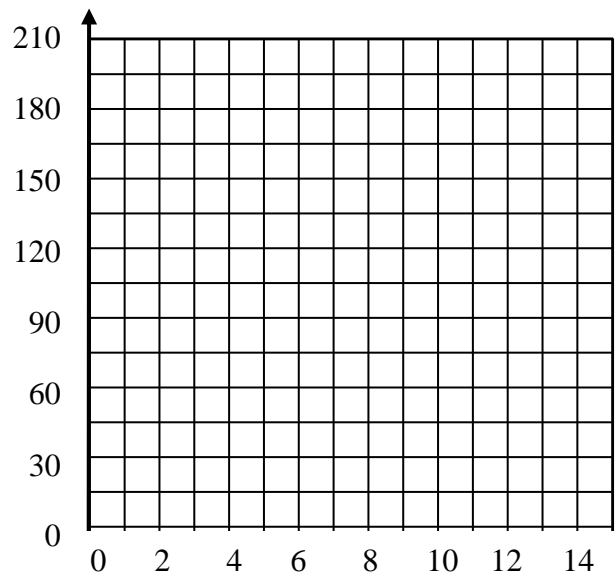
8. Check your answers to #7 algebraically.

2. Group B is building a chain-link fence. It is already 39 feet long. This group is able to build 15 feet of fencing per hour.

a. Make a table to show how the length of fence will change: *(Hint: Use increments that are on the graph below.)*

b. Write an equation to fit the situation:

\_\_\_\_\_



## Triangle Dimensions

A triangle's base is 7 cm longer than its height. The Area is 15 square cm. Find the height and base of the triangle.

1. Sketch and label your triangle.

2. Write an equation.

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3. Solve. Show all your work.

4. Check your solution.

5. Solution: height \_\_\_\_\_

base \_\_\_\_\_