



Write the equation of your **Line of Best Fit** with decimals, not fractions: \_\_\_\_\_

**Use this equation to answer the questions. SHOW YOUR WORK!!**

1. What weight will be recorded if the person is 5.25 feet away from the scale? \_\_\_\_\_

2. If the scale shows a weight of 75 pounds, how far away is the student from the scale end of the plank? \_\_\_\_\_

3. If the scale shows a weight of 52 pounds, how far away is the student from the scale end of the plank? \_\_\_\_\_

4. As the student moves farther and farther from the scale, what happens to the reading?

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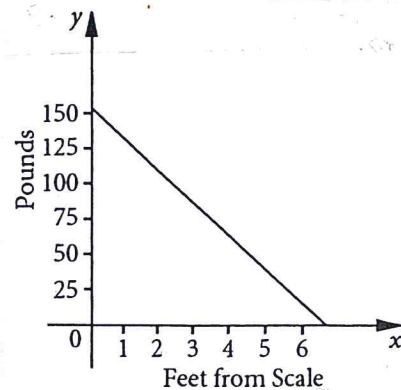
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5. Study the graph to the right.

Determine the weight of the person walking the plank. \_\_\_\_\_

Determine the length of the plank. \_\_\_\_\_



6. Exchange your data set with the group you shared the scale with. Plot the second set of data on your graph paper and draw a line of best fit. What do the lines have in common? \_\_\_\_\_

Why? \_\_\_\_\_

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