

## Algebra Module 6 Project

Write a real-world situation (word problem) that can be written as a linear equation and graphed on the coordinate plane. See 6.2 ex. 2, #10, #11 and #13 for samples. You may not choose the same situation or make the same graphs as the samples in the textbook. The questions in the book only include the important, necessary information. Please make your word problem more exciting and interesting to read. See checklist and rubric below.

1. Choose a topic you are interested in to write an interesting word problem and create the equation that represents your word problem.
2. Proofread and edit your word problem. Double-check that your equation accurately represents the situation.
3. Identify the slope, the x-intercept, and the y-intercept.
4. Explain the meaning of the x-intercept, the y-intercept and the slope.
5. Graph the equation (label axes with units) on graph paper.
6. Put project together:
  - a. On a regular 8.5 x 11 paper (any color), write neatly (or type) your word problem.
  - b. Glue the graph on the paper (may not be generated on the computer)
  - c. Write the information from #3 and #4 neatly on project paper (this may be typed).
7. Staple rough draft, scratch paper and this paper behind your project.

### RUBRIC

Word Problem is interesting and can be represented with a linear equation	_____/5 points
Writing Conventions (grammar, punctuation, spelling, sentence structure)	_____/5 points
Equation accurately represents the word problem	_____/5 points
Equation is graphed correctly	_____/5 points
x-intercept, y-intercept and slope are identified correctly	_____/3 points
x-intercept, y-intercept and slope are explained correctly	_____/3 points
Project aesthetics: proper heading, use of space, graphics/pictures	_____/4 points
<b>TOTAL</b>	<b>_____/30 points</b>