

LESSON **3.2** Assignment

Name _____ Date _____

Tickets for Sale
Standard Form of Linear Equations

1. Mr. Johanssen is the history teacher at Franklin Middle School. He gives his class 50-question multiple choice tests. Each correct answer is worth 2 points, while a half of a point is deducted for each incorrect answer. If the student does not answer a question, that question does not get any points at all. This type of scoring penalizes students for guessing.
 - a. Determine the test score of a student who has 30 correct answers and 5 incorrect answers. Show your work.



- b. If you know the number of correct answers, are you able to determine the total number of points the student earned? Explain your reasoning.

- c. A student needs to earn 80 points on the test in order to keep an A grade for the semester. Write an equation that represents the situation in terms of the number of incorrect answers.

- d. Determine the x - and y -intercepts of the equation and use them to graph the equation. Explain what each intercept means in terms of the problem situation.

3



