

Ma 085 ~ Linear Equations and Graphs PreTest Study Guide

For this test, you will have to demonstrate proficiency in the following skills:

- Solving one-, two-, and multi-step equations with integers, fractions, and decimals
(For instance, $2x + 3 = 8$, solve for x would be a two-step equation with integers.)
- Solving equations presented in words
(For instance, “The sum of a number and five is seven—what is the number?”)
- Given the perimeter and width of a rectangle, finding the *area*
- Correctly placing an ordered pair on the coordinate plane
- Identifying the slope and y-intercept of an equation (even if the equation is presented in standard form)
- Identifying points that lie on a line given the equation of the line
- Finding the slope of a line given 2 points
- Finding the slope of straight horizontal or vertical lines
- Finding the equation of a line given the slope and y-intercept, *or* a graph of the line, *or even* just 2 points
- Finding the slope of lines that are parallel or perpendicular to a given line
- Applying any of the above to a real-world situation