

# Homework 1

**Read:** Pages 7-12 from the following book:

Lobato, J., & Ellis, A. B. (2010). *Essential understandings: Ratios, proportions, and proportional reasoning*. In R. M. Zbiek (Series Ed.), *Essential understandings*. Reston, VA: National Council of Teachers of Mathematics.

**Then answer this question:**

***Proportional Reasoning Versus Using the Proportion Algorithm.*** Pretend that you are a middle school math teacher. Explain to a fellow teacher why correctly solving a proportion task by setting up a proportion and using cross-multiplication to solve does not ensure that a student is reasoning proportionally. Present parts of the Bonita example from the reading to support your points. Provide enough detail that someone not in our class (like a future fellow teacher who has not read the reading) could follow your argument and your example(s). Your response should be a minimum of 2 paragraphs.