

# Lesson 16: Estimating Population Proportions

## Cool Down: More than 48 Grams

A chemical engineer is trying to increase the amount of the useful product in a reaction. She performs the reaction with her new equipment 10 times and gets the following amounts of the useful product in grams:

47.1    48.2    48.3    47.5    48.5    48.1    47.2    48.2    48.4    48.3

1. What proportion of the reactions were above the 48 grams threshold?
  
2. Other chemists typically get 65% of their reactions to produce more than 48 grams. Should the engineer say that she was able to increase the useful product when compared to the other chemists?