# Quiz 13

written by Alvin Wan . alvinwan.com/cs70

Tuesday, March 8, 2016

**This quiz does not count towards your grade.** It exists to simply gauge your understanding. Treat this as though it were a portion of your midterm or final exam. In this quiz, we will walk through counting with problems of increasing difficulty.

## 1 Counting (with Ice Cream)

1. How many ways are there to pick 3 scoops of 5 possible ice creams each?

2. Let us now order all 5 ice cream flavors. How many ways are there to pick 3 scoops such that the order is respected? (No repeating scoops.)

3. How many ways are there to sprinkle 10 oreo pieces on our 3 scoops of ice cream?