

Counting Combinations

Project 5 and Section 5.5

March 1, 2016

Computing $C(3, 2)$

The 2-element subsets of $\{1, 2, 3\}$ are:

- $\{1, 2\}$
- $\{1, 3\}$
- $\{2, 3\}$

Computing $C(4, 3)$

The 2-element subsets of $\{1, 2, 3, 4\}$ are:

- $\{1, 2\}$
- $\{1, 3\}$
- $\{2, 3\}$
- $\{1, 4\}$
- $\{2, 4\}$
- $\{3, 4\}$

Computing $C(4, 3)$

The 3-element subsets of $\{1, 2, 3, 4\}$ are:

- $\{1, 2, 3\}$
- $\{1, 2, 4\}$
- $\{1, 3, 4\}$
- $\{2, 3, 4\}$