

Name: _____

Combinations

- 1) Find the number m of committees of 3 that can be chosen from 8 people.

- 2) A farm has 6 cows, 5 pigs, and 4 hens. Find the number m of ways a person can buy 3 cows, 2 pigs, and 4 hens from the farm.

- 3) A history class contains 8 male students and 6 female students. Find the number n of ways that the class can elect:
 - 1) 1 class representative
 - 2) 2 class representatives
 - 3) 1 male and 1 female

- 4) There are 12 students who are eligible to attend the National Student Association annual meeting. Find the number n of ways a delegation of four students can be selected from the 12 eligible students.

- 5) A student is to answer 8 out of 10 questions on an exam
Find the number n of ways the student can choose 8 of the 10 questions

- 6) A class contains 10 students with 6 men and 2 woman. Find the number n of ways the class can
 - 1) Select a 4 - member committee from the students
 - 2) Select a 4 - member committee with 2 men and 2 women