Lesson 10.2 Practice: Combinations

School Launch · Algebra II · Unit 10: Counting, Probability and the Binomial Theorem · Worksheet A

Calculator for decimals

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. How many ways can 5 books be chosen from 12 (order does not matter)? EASY

2. How many ways can 5 books be chosen from 6 (order does not matter)? EASY

3. How many ways can 4 books be chosen from 7 (order does not matter)? EASY

4. How many ways can 5 books be chosen from 15 (order does not matter)? MEDIUM

5. How many ways can 2 books be chosen from 13 (order does not matter)? MEDIUM

6. How many ways can 4 books be chosen from 12 (order does not matter)? MEDIUM

7. How many ways can 2 books be chosen from 11 (order does not matter)? MEDIUM

8. A committee of 3 men and 3 women is chosen from 6 men and 8 women. How many committees are possible? HARD

9. A committee of 3 men and 3 women is chosen from 8 men and 7 women. How many committees are possible? HARD

10. A committee of 2 men and 1 women is chosen from 7 men and 9 women. How many committees are possible? HARD