

Name: _____

Date: _____

BLM 11-5

Chapter 11 Study Guide

This study guide is based on questions from the Chapter 11 Practice Test in the student resource.

Question	I can ...	Help Needed	Refer to
#1	determine, using a variety of strategies, the number of permutations of n different elements taken r at a time to solve a problem	<input type="checkbox"/> some <input type="checkbox"/> none	11.1 Example 5
#2	determine the total number of permutations when two or more elements are identical	<input type="checkbox"/> some <input type="checkbox"/> none	11.1 Example 3
#3	determine the number of combinations of n different elements taken r at a time to solve a problem	<input type="checkbox"/> some <input type="checkbox"/> none	11.2 Example 2
#4	explain the patterns found in the expanded form of $(x + y)^n$, $n \leq 4$ and $n \in \mathbb{N}$, by multiplying n factors of $(x + y)$	<input type="checkbox"/> some <input type="checkbox"/> none	11.3 Example 2
#5	determine a specific term in the expansion of $(x + y)^n$	<input type="checkbox"/> some <input type="checkbox"/> none	11.3 Examples 1, 2
#6	relate the coefficients of the terms in the expansion of $(x + y)^n$ to the $(n + 1)$ row in Pascal's triangle	<input type="checkbox"/> some <input type="checkbox"/> none	11.3 Example 1
#7	determine, using a variety of strategies, the number of permutations of n different elements taken r at a time to solve a problem	<input type="checkbox"/> some <input type="checkbox"/> none	11.1 Example 3
#8	solve an equation that involves ${}_nP_r$ or ${}_nC_r$ notation	<input type="checkbox"/> some <input type="checkbox"/> none	11.1 Example 2
#9	determine, using a variety of strategies, the number of permutations of n different elements taken r at a time to solve a problem	<input type="checkbox"/> some <input type="checkbox"/> none	11.1 Example 3
#10	determine, using a variety of strategies, the number of permutations of n different elements taken r at a time to solve a problem	<input type="checkbox"/> some <input type="checkbox"/> none	11.1 Examples 1, 5
#11	explain, using examples, the difference between a permutation and a combination	<input type="checkbox"/> some <input type="checkbox"/> none	11.2 Investigation
#12	determine a specific term in the expansion of $(x + y)^n$	<input type="checkbox"/> some <input type="checkbox"/> none	11.3 Examples 1, 2
#13	determine, using a variety of strategies, the number of permutations of n different elements taken r at a time to solve a problem	<input type="checkbox"/> some <input type="checkbox"/> none	11.1 Example 5
#14	solve an equation that involves ${}_nP_r$ or ${}_nC_r$ notation	<input type="checkbox"/> some <input type="checkbox"/> none	11.1 Example 2 11.2 Example 3
#15	expand, using the binomial theorem, $(x + y)^n$	<input type="checkbox"/> some <input type="checkbox"/> none	11.3 Example 2
#16	determine the number of permutations when two or more elements are identical	<input type="checkbox"/> some <input type="checkbox"/> none	11.1 Example 3

