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Date: 9/1/15
Time: 5:41 AM

Instructor: Tech Support, Jonathan Byrd, Jennifer Byrom, Nancy Hixson, Kristy Hawkins, Christina Horton, Rakia Law, Joey Fields
Course: MATH301-14A-1A16-S2
Book: Pirnot: Mathematics All Around, 5e

Assignment: Unit V Homework

42. For a set of five objects, find the number of different subsets of size 1. (Use row 5 of Pascal's triangle to find the answer.)

The number of different subsets of size 1 for a set of 5 elements is .

43. Specify the number of ways to perform the task described. Give your answers using $P(n, r)$ or $C(n, r)$ notation.

Mulder will read the files on four unsolved cases from a list of sixteen. He does not care about the order in which he reads the files.

The number of ways to perform the task is . (Do not evaluate.)

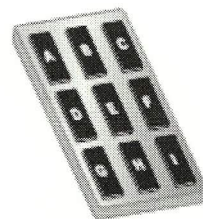
44. Specify the number of ways to perform the task described. Give your answers using $P(n, r)$ or $C(n, r)$ notation.

The manager of a baseball team has already chosen the second, third, fifth, and ninth batters in the batting lineup. He has selected five others to play and wants to write their names in the batting lineup.

The number of ways to perform the task is . (Do not evaluate.)

45. Specify the number of ways to perform the task described. Give your answers using $P(n, r)$ or $C(n, r)$ notation.

In order to unlock a door, two different buttons must be pressed down on the panel shown. When the door opens, the depressed buttons pop back up. The order in which the buttons are pressed is not important.



The number of ways to perform the task is . (Do not evaluate.)

46. Specify the number of ways to perform the task described. Give your answers using $P(n, r)$ or $C(n, r)$ notation.

The editorial staff of a literary magazine has received seventeen articles. The staff wants to choose six articles for the next issue of the magazine.

The number of ways to perform the task is . (Do not evaluate.)