

Permutations and Combinations

Saturday, 26 July 2025

6:11 PM

Ex → A B C D

AB

AC

AD

BA

BC

BD

CA

CB

CD

DA

DB

DC

Permutations = 12

Combinations = 6

$${}_nP_r = \frac{4!}{(4-2)!}$$

$$= 12$$

$${}_nC_r = \frac{4!}{(4-2)!(2)!}$$

$$= \underline{\underline{6}}$$

$${}_nP_r = \frac{n!}{(n-r)!}$$

$${}_nC_r = \frac{n!}{(n-r)!r!}$$