

Chapter 07

PERMUTATIONS AND COMBINATIONS

EXAMPLE-1:

Evaluate $\frac{n!}{r!(n-r)!}$; when $n = 5, r = 2$.

SOLUTION:

$$= \frac{5!}{2!(5-2)!}$$

$$= \frac{5!}{2!3!}$$

$$= \frac{5 \times 4 \times \cancel{3!}}{2! \cancel{3!}}$$

$$= \frac{20}{2} = 10.$$

