

The formula for the number of combinations of  $n$  things taken  $r$  at a time is \_\_\_\_\_.

A)  $P(r, n) = \frac{n!}{r!(n-r)!}$

B)  $P(r, n) = \frac{n!}{r!(n+r)!}$

C)  $P(r, n) = n! \cdot r!(n-r)!$

D)  $P(r, n) = n! \cdot r!(n+r)!$

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The formula for the number of permutations of  $n$  things taken  $r$  at a time is  $P(r, n) = \frac{n!}{r!(n-r)!}$ .

Answer **A**