Example to remember Cartesian Product:

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Example: Let A = {a, b, c} and B = {p,q}.

Then A × B = {(a, p), (a, q), (b, p),(b, q), (c, p), (c, q)}

Also B × A = {(p, a), (p, b), (p, c), (q, a), (q, b), (q, c)}
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Results on Cartesian Product:

If A and B are non-empty sets and either A or B is an infinite set, then so is A × B.

 $A \times A \times A = \{(a, b, c) : a, b, c \in A\}$. Here (a, b, c) is called an ordered triplet.