## Answer on Question \#75727 - Math - Discrete Mathematics

Firstly, there are $\binom{5}{3}=10$ different ways of choosing three people to sit at the table. Once we pick three people A, B and C to sit at the table. There are $\frac{\text { ways to sit three people in a row }}{\text { ways to rotate the table }}=\frac{\text { ways to sit three people in a row }}{\text { number of chairs }}=\frac{3!}{3}=2$, ways to sit 3 people at a circular table. Hence, there are

$$
10 \times 2=20
$$

3-permutations of 5 people.

