12

Word : ALLTALK

n Letters = 7

$$\text{Permutations} = \frac{n!}{m_A! \, m_L! \, m_T! \, m_K!}$$

$$= \frac{7!}{2! \cdot 3!} = \frac{5040}{12} = \underline{420}$$

With two A's next to each other:

- Put the two A's "into" one letter

$$\frac{6!}{3!} = 6 \cdot 5 \cdot 4 = \underline{120}$$

- There are 2! permutatinsos of "aa"

Which gives us nPermutations : $120 \cdot 2 = \underline{240}$