1. (3 points) Let $A$ be a set. Complete the sentence. A permutation of the set $A$ is a function $\sigma : A \rightarrow A$ such that $\sigma$ is one-to-one and onto.

2. (2 points) How many words can be formed from four distinct letters?

$24 = 4 \cdot 3 \cdot 2 \cdot 1$. There are four choices for the first letter, three choices for the second letter, two choices for the third letter, and one choice for the fourth letter.