1. A survey of 100 students is taken and finds that 75 enjoy mathematics, 52 enjoy statistics, and only 10 enjoy neither subject. Draw a properly labeled Venn diagram and determine how many of the 100 students enjoy both mathematics and statistics. *(10 points)*

2. In choosing a new automobile of a particular brand, one must choose one of six different exterior colors, one of three interior colors, one of two different engines, and one of 3 different trim packages. How many different choices are possible? Explain. *(10 points)*