1) How many different colored tetrahedra are there in which each face is colored either red or white or blue? (note that you have to consider the rotational group of the tetrahedron. Indeed you can only rotate your tetrahedra)

2) How many different colored tetrahedra are there in which each face is colored either red or white or blue or green? (note that you have to consider the rotational group of the tetrahedron. Indeed you can only rotate your tetrahedra)

3) How many different colored tetrahedra are there in which two faces are colored red, one blue and one green? (note that you have to consider the rotational group of the tetrahedron. Indeed you can only rotate your tetrahedra)

4) You are given four pens, two blue, one red and one black. You want to glue the pens together to form a square. How many different squares can you make?

5) Let $P$ be a pyramid whose base is a square. How many different ways are there to color each face either blue or red or yellow?

6) Let $P$ be a pyramid whose base is a pentagon. How many different ways are there to color each face either blue or red or yellow?

7) Exercise 10 Chapter 6 in the book.