

**Math 270 - Basic Discrete Mathematics**  
**Practice Quiz on Section 9.6**

**Directions:** Answer the problem given below. You *do not* need to simplify: your answers may include products, division, sums, differences, exponents, factorials, and binomial coefficients.

1. You wish to print 20 copies of a flyer, and at the photocopier you find you have access to four different colors of paper: white, green, yellow, and salmon. You may assume that you have at least 20 sheets in each color.

a. In how many different ways can you print your flyers?

b. In how many different ways can you print your flyers if you decide not to make any white copies?

c. In how many different ways can you print your flyers if you decide that you want at least 5 salmon copies?