

## Discrete Math HW #3

### Chapter 8 pp. 315-321

(2 or 3\* pts. each)

#11, 14\*, 19\*, 24, 25, 29\*, 34, 43, 45

### Complete the questions below

(4 pts each)

1. How many 5-card poker hands are there with no repeated card value? This means you can't have two kings or two sevens, etc.
2. A basket contains 20 colored beans. There are ten red beans and ten purple beans. The red beans are numbered from 1 to 10 and so are the purple beans. If I select 6 beans from the basket, what is the probability that I select at least one pair of beans with the same number?