Unit 7- Lesson 3 Homework

Name: ..... Period : .....

1. **Experimental** or **Theoretical** probability? John flips a fair coin 60 times and get heads 33 times. Based on his results, the _____ probability of getting heads when flipping a fair coin is 33/60 or 0.55.

A pet store contains 35 light green parakeets (14 females and 21 males) and 44 sky blue parakeets (28 females and 16 males). Arrange this information in a two-way table.

	Male	Female	Total
Light Green Parakeet	21	14	35
Sky Blue Parakeet	16	28	44
Total	37	42	79

You randomly choose one of the parakeets. (Give answers as the fractions; you do not need to reduce.)

2. What is the probability that it is a Light Green Parakeet?
3. What is the probability that the randomly chosen parakeet is both green and male?
4. What is the probability that the randomly chosen parakeet is female, given it is green?
5. Find P(Male)
6. Find P(Male and Sky Blue)
7. Find P(Male or Sky Blue)
8. Find P(Male | Sky Blue)

A bag contains 5 blue marbles, 7 green marbles, and 3 red marbles.

9. You randomly select one marble. What is the probability that it is blue or green?
10. Suppose you select 2 marbles. You randomly pull out a marble, **replace it**, then pull out a second marble. What is the probability that you selected 2 red marbles?
11. You randomly pull out 2 marbles, **without replacing** the first. What is the probability that you get 2 red marbles?