Review 3.4 and 3.5 worksheet

1) A group of students were asked if they carry a credit card. The responses are listed in the table.

Class	Credit Card Carrier	Not a Credit Card Carrier	Total
Freshman	23	37	60
Sophomore	15	25	40
Total	38	62	100

If a student is selected at random, find the probability that he or she owns a credit card given that the student is a freshman. Round your answer to three decimal places.

2. A group of students were asked if they carry a credit card. The responses are listed in the table.

Class	Credit Card Carrier	Not a Credit Card Carrier	Total
Freshman	23	37	60
Sophomore	15	25.	40
Total	38	62	100

If a student is selected at random, find the probability that he or she owns a credit card given that the student is a sophomore. Round your answers to three decimal places.

3. A group of students were asked if they carry a credit card. The responses are listed in the table.

Class	Credit Card Carrier	Not a Credit Card Carrier	Total
Freshman	23	37	60
Sophomore	15	25	40
Total	38	62	100

If a student is selected at random, find the probability that he or she is a freshman given that the student owns a credit card. Round your answers to three decimal places.

4) A group of students were asked if they carry a credit card. The responses are listed in the table.

Class	Credit Card Carrier	Not a Credit Card Carrier	Total
Freshman	23	37	60
Sophomore	15	25	40
Total	38	62	100

If a student is selected at random, find the probability that he or she is a sophomore given that the student owns a credit card. Round your answers to three decimal places.

5. You are dealt two cards successively without replacement from a standard deck of 52 playing cards. Find the probability that the first card is a two and the second card is a ten. Round your answer to three decimal places.

6) Find the probability of answering two true or false questions correctly if random guesses are made. Only one of the choices is correct.

7. A multiple-choice test has five questions, each with five choices for the answer. Only one of the choices is correct. You randomly guess the answer to each question. What is the probability that you answer the first two questions correctly?

8.) Find the probability of selecting two consecutive threes when two cards are drawn without replacement from a standard deck of 52 playing cards. Round your answer to four decimal places.

9. Find the probability of getting four consecutive aces when four cards are drawn without replacement from a standard deck of 52 playing cards.

10. Find the probability of answering the two multiple choice questions correctly if random guesses are made. Assume the questions each have five choices for the answer. Only one of the choices is correct.

11. Four students drive to school in the same car. The students claim they were late to school and missed a test because of a flat tire. On the makeup test, the instructor asks the students to identify the tire that went flat; front driver's side, front passenger's side, rear driver's side, or rear passenger's side. If the students didn't really have a flat tire and each randomly selects a tire, what is the probability that all four students select the same tire?

12. A multiple-choice test has five questions, each with five choices for the answer. Only one of the choices is correct. You randomly guess the answer to each question. What is the probability that you do not answer any of the questions correctly?

13. A multiple-choice test has five questions, each with five choices for the answer. Only one of the choices is correct. You randomly guess the answer to each question. What is the probability that you answer all five questions correctly?

14. A multiple-choice test has five questions, each with five choices for the answer. Only one of the choices is correct. You randomly guess the answer to each question. What is the probability that you answer at least one of the questions correctly?