Statistics 4.1 Review #2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**For questions 1 – 4, state whether the variable is discrete or continuous.**

1. The amount of coffee poured into a cup.

2. The number of players on a basketball team.

3. The temperature at noon on a given day.

4. The number of a phone call to the attendance office on a very snowy day.

5. 5,000 raffle tickets are sold at $5 each for three prizes valued at $4,500, $1,500, and $500. What is the expected value of one ticket?

6. The random variable x represents the number of credit cards that adults have along with the corresponding probabilities. Find the mean and standard deviation.

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| --- | --- |
| x | p(x) |
| 0 | 0.08 |
| 1 | 0.63 |
| 2 | 0.20 |
| 3 | 0.06 |
| 4 | 0.03 |

Use the probability distribution for #7-10.



7. What is the missing probability?

8. What is the probability of at least 5?

9. What is the probability of less than 4?

10. What is the probability of not 2?