**Part 3 - Review of Independent and Dependent Probability**

1. **What is the different between independent and dependent probability?**

Ex. Flipping a coin and getting heads three times in a row.

Ex. Pulling a King from a deck of cards and then a Diamond (without putting the card back).

Ex. Pulling a King from a deck of cards, putting the card back, and then a pulling a Diamond.

1. **Find the Probability of the following using a standard 52 card deck of cards:**
2. P(Heart and then a Five) – With replacement
3. P(Heart and then a Five) – Without replacement
4. P(a Four 3 times in a row) – With replacement
5. P(a Four 3 times in a row) – Without replacement
6. **Tina has 5 pennies, 3 nickels, 6 dimes, and 3 quarters in her purse. If each coin is equally likely to be pulled from her purse (without replacement), what is the probability she will pull out the 3 quarters in a row first?**