Name: _____   Period:_____   **Date Assigned: 3-23-18**

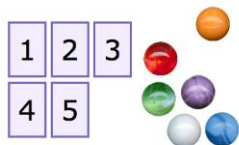# Week 28 Homework: Types of Probability   Due: Thursday 3-29-18

Sample Space

1.) You flip a coin and spin the spinner. How many outcomes are possible?

2.) You roll a die and pick a marble. How many outcomes are possible? (Each marble is a different color)

3.) You pick a card and pick a marble. How many outcomes are possible? (Each marble is a different color)

Theoretical Probability of Simple Events

Simplify your answer and write it as a fraction or whole number.

1.) Mitzi owns 16 T-shirts, 4 of which are yellow. If Mitzi randomly selects a T-shirt to wear, what is the probability it will be yellow?

P(yellow) = _____

2.) Rita is a makeup artist and carries a lot of makeup around with her. She has 10 cosmetics in her bag, including 2 mascaras. What is the probability that a randomly selected makeup item from her bag will be a mascara?

P(mascara) =

3.) A university class has 17 students enrolled, 6 of whom are juniors. What is the probability that a randomly chosen student will be a junior?

P(junior) =

Compound Events

1.) You spin the spinner twice.

What is P(even, even)? Write your answer as a percentage.

P(even, even) = _____ %

2.) You pick a card at random. Then, put the first card back, and you pick a second card at random.

What is P(black, white)?

3.) You pick a card at random, put it back, and then pick another card at random.

1 2 3 4

What is P(2, even)? Write your answer as a percentage.