Time Frame: 50 minutes

Subject Matter: Classical Probability

Anticipatory Set:

What are the possible outcomes of tossing a coin and a die?

Objective: TSWBAT find the probability of an event using classical probability.

Standards: DA – 1.1 & 1.2

Materials: Textbook, O.H.P. & Transparencies

**TELL ME**

Presentation of Information:

Definition of Terms:

**SHOW ME**

Example 1: For a card drawn from an ordinary deck of cards, find the probability of getting a queen.

Example 2: If a family has three children, find the probability that all the children are girls.

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_**

**LET ME TRY**

1. A card is drawn from an ordinary deck. Find these probabilities.
	1. Of getting a jack
	2. Of getting the 6 of clubs
	3. Of getting a 3 or a diamond
2. If three coins are tossed simultaneously, find these probabilities.
	1. Of having two heads and one tail
	2. Of having all heads
	3. Of having two tails and one head
3. If two dice are rolled one time, find the probability of getting these results.
	1. A sum of 6
	2. Doubles
	3. A sum of 7 or 11
	4. A sum greater than 9
	5. A sum less than or equal to 4.

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| --- | --- |
|  | 2nd Die |
| 1st Die | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 |   |   |   |   |   |   |
| 2 |   |   |   |   |   |   |
| 3 |   |   |   |   |   |   |
| 4 |   |   |   |   |   |   |
| 5 |   |   |   |   |   |   |
| 6 |   |   |   |   |   |   |

Homework: If a die is rolled one time, find these probabilities.

1. Of getting a 4.
2. Of getting an even number.
3. Of getting a number greater than 4.
4. Of getting a number less than 7.
5. Of getting a number greater than 0.
6. Of getting a number greater than 3 or an odd number.
7. Of getting a number greater than 3 and an odd number.