

Place homework in green bin on desk

Warm-up

1. Draw a probability tree for the outcomes of rolling a six sided fair die then flipping a coin.

2. A card is drawn from a deck of face cards with all black cards and all jacks removed. How many cards remain? What is the probability of drawing a red king? A queen of hearts? (If you don't know the red suits, ask your classmates!)




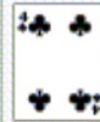





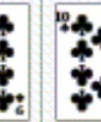












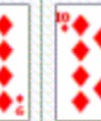


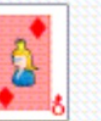







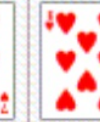



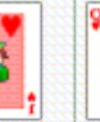
















Probability Assignment #1

1. A _____ is a sample in which each member of a population is equally likely to be selected.
2. A sample is _____ when certain individuals are favored in a selection.
3. The result of an experiment is called an _____ or an _____.
4. The set of all possible outcomes is known as a _____.
5. Each letter in the word flower is written on a card and the cards are shuffled. List a sample space for the outcome of drawing one card.
6. Two balls are to be drawn successively from a bag known to contain only yellow balls and purple balls. List a sample space for the experiment.
7. List a sample space that indicates all possible outcomes when two dice are thrown.
8. A bag contains 4 red marbles and 3 yellow marbles. Draw a probability tree for the drawing of 3 marbles. What probability of drawing a red, yellow, then red marble? Yellow, red, yellow?

Deck of Cards

Example set of 52 poker playing cards

Suit	Ace	2	3	4	5	6	7	8	9	10	Jack	Queen	King
Clubs													
Diamonds													
Hearts													
Spades													

Card Activity

1. One person from each group grab a chromebook.
2. Go to ritsickd.weebly.com
3. Go to AFM Unit 1. Copy and paste docs.google link into web browser.
4. Once opened, click File and Make a Copy.
5. Type all of your results into google sheets
6. Read directions carefully. Follow steps 1-9.

Binder Set-up

Table of Contents (written or typed)

1. Class Notes

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2. Warm-ups

3. Study Guides

4. Reflections

1.2 Properties of Probability

Chance or likelihood that an event will take place, always between 0 and 1

$$P(\text{favorable}) = \frac{\text{favorable outcomes}}{\text{total outcomes}}$$

$$P(\text{not favorable}) = \frac{\text{not favorable outcomes}}{\text{total outcomes}}$$

Must sum to 1

Certain: Probability of 1

Impossible: Probability of 0

Examples

1. What is the probability of rolling a four in one roll of a six-side fair die?

The probability of throwing a four is $1/6$.

2. The faces of a cube are marked with the letters A, A, B, C, D, E. If the cube is tossed, what is the probability that an A will turn up?

The probability that an A will turn up is $\frac{2}{6}$ or $\frac{1}{3}$.

3. A spinner has 4 equal sectors colored yellow, blue, green and red. After spinning the spinner, what is the probability of landing on each color?



- A single 6-sided die is rolled. What is the probability of each outcome? What is the probability of rolling an even number? of rolling an odd number?

A glass jar contains 6 red, 5 green, 8 blue and 3 yellow marbles. If a single marble is chosen at random from the jar, what is the probability of choosing a red marble? a green marble? a blue marble? a yellow marble?

For Tomorrow:

Complete Probability Assignment 2
#1-5

