Sec 2.1 - Probability **Basic Probability**

Name:

Determine whether each of the following are EMPIRICAL, THEORETRICAL, or SUBJECTIVE probability and then determine the probability.

1. What is the probability of rolling a standard six sided number cube to a number with 4 letters in the spelling of that number?

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- What is the *Complement* of drawing a "numbered" card from a standard deck of shuffled cards? 6.
- What is the difference between the **probability** and the **odds** of winning? 7.
- 8. Determine the following.
 - A. What are the **<u>odds</u>** of rolling a standard six sided die to the number "2"?
 - B. If the probability of winning is 20% what are the **<u>odds</u>** of winning?

CLASSIC PROBABILITY

What is the probability of flipping a coin and having 9. it land on "Tails"? (write your answer in fractional form, decimal form, and as a percentage)

Fraction:	Decimal:	Percent:

11. A person has 20 Rap songs, 15 R&B songs, 20 Alternative songs, 12 Pop songs, 5 Country songs, and 18 Hip Hop songs stored on an MP3 player (a total of 90 songs). If the person set the MP3 player to random shuffle, what are the odds of the first song being played being a Country song?



10. What is the probability of drawing an odd numbered card from a standard deck of shuffled cards?



- 12. What is the probability of flipping two coins and having both coins land on tails (*make a tree diagram first*)?
- 13. What is the probability of flipping 3 coins and having al 1 three land on tails (make a tree diagram first)?
- 14. What is the probability of flipping 3 coins and having exactly two of them land on tails?



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SECTION 2-1 p.17 16. If a cable repairman is supposed to show up to for a repair between 1:00pm and 6:00pm and the home owner can't be home until 3:00pm, what is the probability that the home owner will be home when the cable repair man shows up (assuming the repairman is equally likely to come at any time during the specified range)?

Percentage: