

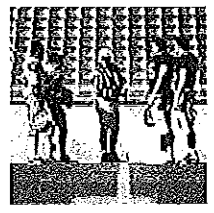
You may use a calculator  
You must show fractions,  
decimals & percents!

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

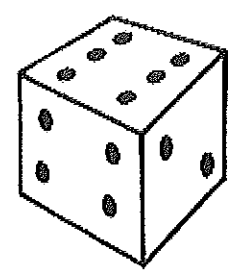
Intro to Probability Practice



1) A coin toss determines which team gets to kick the football first. A team captain calls "heads." How likely is it that the captain's team will win the toss?

2) You roll a number cube (or die). Find the probability of each event below:

- a) You roll an odd number.
- b) You roll a whole number.
- c) You roll a 7.
- d) You roll a number less than 3.

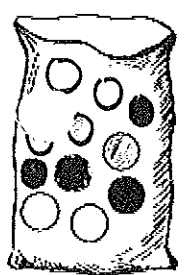
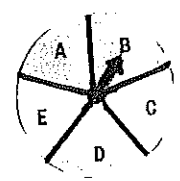


3) You have 3 quarters in your pocket. Only one is a state quarter. If you randomly choose a quarter from your pocket, what is the probability that it will be a state quarter?



4) You spin the spinner below:

- a) Find the probability of spinning a vowel.
- b) Predict the number of spins out of 50 that will be consonants.



5) You randomly choose a marble from a bag of 2 blue, 3 yellow, 4 green, and 3 red marbles. What is the probability that you will NOT choose a blue marble?

- 6) Tell whether the event is impossible, unlikely, likely or certain.
- a) A randomly chosen person is right-handed.
  - b) It will be July in at least one of the next 15 months.
  - c) June will have 31 days this year.
  - d) A person bowls a perfect score.
  - e) Mr. Gavaghan will have long hair next year.
  - f) Ms. Manning will have a trampoline in her classroom next year.
  - g) Mrs. Gumas will teach French next year.
  - h) Mrs. Silva will teach science next year.



- 7) A bag holds 26 tiles, each marked with a different letter. What is the probability that one tile chosen at random is NOT a vowel?

- A)  $\frac{5}{26}$       B)  $\frac{21}{26}$     C)  $\frac{3}{13}$       D)  $\frac{1}{21}$

- 8) You randomly choose a level from 12 different levels in a video game. You don't know which 4 levels have secret warp zones. Find the probability that you choose a level that has a secret warp zone.



- 9) A CD changer holds 3 CDs. Each CD has 12 songs. You let the CD changer randomly select which song to play first. Find the probability that your favorite song is played first.
- 10) In a middle school, 320 students take French, 576 students take Spanish, and the remaining 384 students do not take a language. No student can take both languages. What is the probability that a student chosen at random is taking French? What is the probability that a language student chosen at random is taking French?
- 11) Can the probability of an event be greater than 1? Can the probability of an event be less than 0? Explain your answer.