


Worksheet #1


1) What is the probability of getting a King OR a Queen?

This would be written as $P(K \text{ or } Q) =$

2) What is the probability of getting a prime number or a six on a number cube?

5-39. If you used a random number generator for the numbers from 1 through 20 to play a game, what is the theoretical probability of getting each of these outcomes? Homework Help 

- a. A multiple of 3 *or* a multiple of 7, $P(\text{multiple of 3 or multiple of 7})$
- b. $P(\text{even or odd})$
- c. $P(\text{prime or 1})$
- d. How did you find the probabilities of these events? Be ready to share your ideas with the class.

5-50. Skye's Ice Cream Shoppe is Mario's favorite place to get ice cream. Unfortunately, because he was late arriving there, his friends had already ordered. He did not know what they ordered for him. They told him that it was either a waffle cone or a sundae and that the ice cream flavor was apricot, chocolate, or blackberry. Homework Help 

- a. Make a list of all of the possible ice cream orders.
- b. What is the probability that Mario will get something with apricot ice cream?
- c. What is the probability that he will get a sundae?
- d. What is the probability that he will get either something with chocolate or a waffle cone with blackberry?
- e. What is the probability that he will get orange sherbet?

5-59. Imagine that you have a bag with a red block, a blue block, a green block, and a yellow block inside. You plan to make two draws from the bag, replacing the block after each draw.

a. Are these two events (the two draws of a block) independent or dependent? Does it matter if you replace the block each time? Why or why not?

b. Find the probability of getting a red block and a blue block. (Either color can come first.) Be ready to share your method of organizing the possible outcomes.

Show work with either an equation or a proportion

21% of 54 is what number?

What percent of 40 is 24?

3% of what number is 6?

What is an example of an independent event

What is an example of a dependent event