1. Answer the following using the diagram below.   
    The numbers show the number of elements in each part.



1. How many numbers are in set A? \_\_\_\_\_\_
2. How many numbers are in set B? \_\_\_\_\_\_
3. How many numbers are in set A or set B? \_\_\_\_\_\_\_
4. How many numbers are in set A and set B?\_\_\_\_\_\_\_\_
5. How many numbers are in set A but not C? \_\_\_\_\_\_\_\_
6. How many numbers are not set A? \_\_\_\_\_\_\_\_\_
7. How many numbers are in set A and set B and set C? \_\_\_\_\_\_\_\_\_
8. How many numbers are in set A or set B or set C? \_\_\_\_\_\_\_\_\_\_
9. In a survey of 500 people 200 said that they would be buying a computer product in the next month. 150 said that they would buy an i-pad and 25 said that they would buy and

i-pad and an i-phone. How many will purchase neither? How many will purchase only an  
i-pad? Use a Venn Diagram to help you do this problem.

How many purchase neither? \_\_\_\_\_\_\_\_\_\_\_\_ , How many purchase only an i – pad? \_\_\_\_\_\_\_\_\_\_\_\_

1. Price is Right Problems.
2. P(contestant lands on a 5 or a 75) \_\_\_\_\_\_\_\_\_\_\_\_
3. If a contestant has 30 cents, what is the probability that he will get 70 cents on the next spin?

\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the probability that the contestant lands on $ 1.00 twice?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **A**. If one die is thrown find the following:

**i**.  \_\_\_\_\_\_\_\_\_\_\_\_  **ii**.  \_\_\_\_\_\_\_\_\_\_\_\_\_

**iii**.  \_\_\_\_\_\_\_\_\_\_\_\_\_

**B**. If 2 dice are thrown what is the probability for the sum for the following as listed below:

**i**. \_\_\_\_\_\_\_\_\_\_\_\_  **ii**.  \_\_\_\_\_\_\_\_\_\_\_

**iii**.  **\_\_\_\_\_\_\_\_\_\_\_ iv**. \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**v**.  \_\_\_\_\_\_\_\_\_\_ **vi**. \_\_\_\_\_\_\_\_\_\_\_\_\_

**C**. If 2 sets of dice are thrown what is the probability for the following?

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ii.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_