Probability Assignment 1:

***Do these problems on another sheet of paper, so you can show enough work that I can tell how you got your answer!***

1. (Use your table to answer) If I roll 2 regular dice,

a. What is the probability that the sum is even?

b. What is the probability that I roll the same number on both dice?

c. What is the probability that the sum is 9?

d. What is the probability that the sum is at least 9?

e. What is the most likely sum, and what is its probability?

2. Make an **area (table) and a tree diagram** to answer:

If you spin two spinners that have these faces (shown below), and add the numbers:



a. What is the probability that you will get a sum less than 4?

b. What is the probability that you will get a sum of 6?

c. What sum are you most likely to get, and what is the probability of that sum?

3. Make **a tree diagram** to answer:

If I pick 2 cubes from a bag that has 5 red, 3 blue and 2 green marbles in it, what is the probability that:

a. both cubes are red

b. neither cube is red

c. at least one cube is red

d. exactly one cube is blue.

Review questions: Fill in the missing scale factors and areas for these similar shapes:

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