

Name _____ Date _____ Score _____

$$\text{Probability} = \frac{\text{\# of POSSIBLE DESIRED outcomes}}{\text{\# of ALL POSSIBLE outcomes}}$$

Rolling Two Dice: Complete the table to list ALL POSSIBLE sums of of rolling 2 dice.

RED DIE

BLUE DIE	+	1	2	3	4	5	6
	1						
	2						
	3						
	4						
	5						
	6						

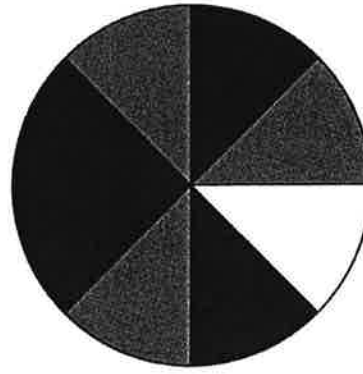
1. What is the number of ALL POSSIBLE sums? _____
2. Complete the table listing the PROBABILITY of the possible sums of rolling the dice once:

SUM OF	PROBABILITY		SUM OF	PROBABILITY
2			8	
3			9	
4			10	
5			11	
6			12	
7				



Use each diagram to solve the problems.

- 1) How many pieces are there total in the spinner?
- 2) If you spun the spinner 1 time, what is the probability it would land on a gray piece?
- 3) If you spun the spinner 1 time, what is the probability it would land on a black piece?
- 4) If you spun the spinner 1 time, what is the probability it would land on a white piece?
- 5) If you spun the spinner 1 time, what is the probability of landing on either a gray piece or a white piece?



Answers

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____
- 11. _____
- 12. _____



- 6) If you were to roll the dice one time what is the probability it will land on a 2?
- 7) If you were to roll the dice one time what is the probability it will NOT land on a 3?
- 8) If you were to roll the dice one time, what is the probability of it landing on an even number?



9) How many shapes are there total in the array?

- 10) If you were to select 1 shape at random from the array, what is the probability it will be a circle?
- 11) If you were to select 1 shape at random from the array, what shape do you have the greatest probability of selecting?
- 12) Which shape has a 37.5% chance (6 out of 16) of being selected?

