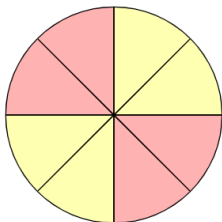


Warmup

1. What part of the circle is red? _____

yellow? _____



2. What part of the rectangle is blue? _____ is white? _____

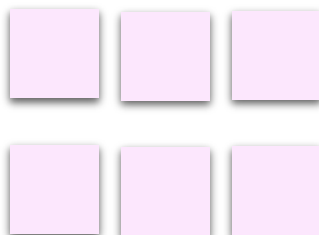


3. Use the numbers 1,2,3,4,5,6,7,8,9, and 10 to answer the following questions.

What are the even numbers? _____

odd numbers? _____

4. Draw the six faces of a standard 6-sided die.



5. Complete the table to show to the possible amounts from rolling two dice.

	1+1 2					
				6		
			7			
						12

I. Probability and Spinners

Probability: The chance of an event occurring.

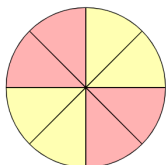
$$P = \frac{\text{The number of favorable outcomes}}{\text{The total number of outcomes}}$$



Die (singular)
Dice (plural)

Make the circle shown in Warmup #1 into a spinner. What is the chance the spinner will land on red?

$$P = \frac{\# \text{ red sections}}{\text{Total \# sections}} = \frac{4}{8} = \frac{1}{2}$$



The numbers 1,2,3,4,5,6,7,8,9, and 10 are each written on an index card. The ten cards are placed in a hat. What is the chance the number pulled out will be an odd number?

$$P = \frac{\# \text{ odd numbers}}{\text{Total \# cards with numbers}} = \frac{5}{10} = \frac{1}{2}$$


6. A spinner, like the one shown, is used in a game. Determine the probability of landing on a 5 on the next spin

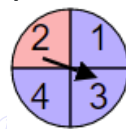
$$P = \frac{\text{Sections with a \#5}}{\text{Total \# sections}} = \frac{1}{8}$$



7. A game is played with a color spinner. Each section is the same size. Find the probability of landing on each color.

$$P(\text{red}) = \frac{2}{8} = \frac{1}{4}$$

$$P(\text{blue}) = \frac{2}{8} = \frac{1}{4}$$



8.

II. Probability and One 6-Sided Die

Probability on a 6-sided die: There are 6 possible outcomes.



It is also called:

A number cube, a standard die.



You roll a six-sided die. What is the probability of rolling a 1?

$$P = \frac{\# \text{ on 1s on the die}}{\text{Total \# sections}} = \text{---}$$

You roll a six sided die. What is the probability of rolling an odd number?

$$P = \frac{\# \text{ odd numbers}}{\text{Total \# sections}} = \text{---}$$

9. You roll a six-sided die. What is the probability of rolling a number greater than 2?

$$P = \frac{\# \text{ of numbers} > 2}{\text{Total \# sections}} = \text{---}$$

10.

III. Probability and Two 6-Sided Dice

Probability with Two 6-sided die: There are 36 possible outcomes.



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

You roll two six sided dice. One of the dice is black and the other is purple. What is the probability of rolling a total of 6?

$$P = \frac{\# \text{ possible combinations of 6}}{\text{Total \# possibilities}} = \text{---}$$

You roll two six sided dice. One of the dice is brown and the other is blue. What is the probability of rolling a total greater than 3?

11. You roll two six sided dice. One of the dice is red and the other is green. What is the probability of rolling a total less than 3?

12.

IV. Probability and Letters in a Word

Probability and Letters:

Vowels: _____

Consonants: All the letters that are not vowels

What is the probability of randomly picking a **letter b** from the word **Probability**?

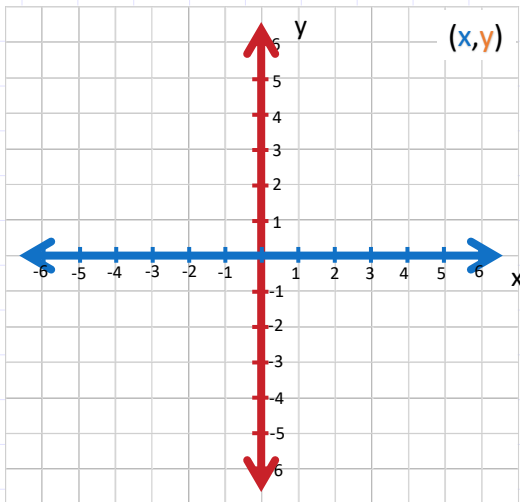
$$P = \frac{\text{\# of letter } b \text{ in word}}{\text{Total \# letters}} = \underline{\hspace{2cm}}$$

13. What is the probability of randomly picking a **letter d** from the word **friends**?

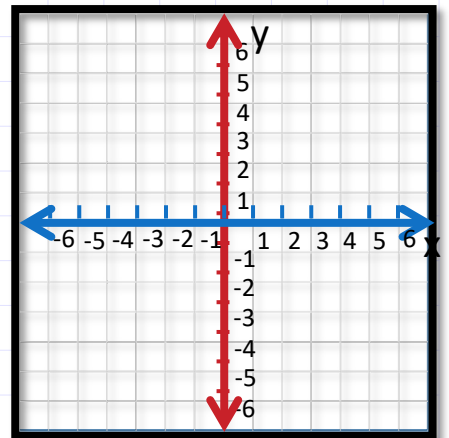
14.

V. Practice

15



16



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