Probability Palette: Infusing Chance into Visual Artistry

Create a key for the types of lines you will use in your artwork. For example, you might put a straight line next to the die role of 1. Types of lines can include: straight, wavy, dotted, zig-zag, dashed, and spiral. You can choose other types of lines to use.

Dice number	Type of Line
1	
2	
3	
4	
5	
6	

You will roll the die 6 times.
1. What is the probability that you will use an unbroken line?
2. What is the probability that you will use a broken line?
3. What is the probability that you will use a spiral line?

For each roll, write down the type of line that corresponds to the number in the space below.

Roll 1: _____
Roll 2: _____
Roll 3: _____
Roll 4: _____
Roll 5: _____
Roll 6: _____

_____

Create a key for the types of colors you will use in your artwork. For example, you might put orange next to die roll 1.

Dice number	Type of Color
1	
2	
3	

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4	
5	
6	

You will roll the die 6 times.

1. What is the probability that you will use a warm color in your art?
2. What is the probability that you will use a complementary color scheme?
3. What is the probability that you will use blue?

For each roll, write down the color that corresponds to the number in the space below.

Roll 1: _____
Roll 2: _____
Roll 3: _____
Roll 4: _____
Roll 5: _____
Roll 6: _____

_____

Create a key for the types of shapes you will use in your artwork. For example, you might put a square next to die roll 1. You can use freeform/organic or geometric shapes.

Dice number	Element: Shape
1	
2	
3	
4	
5	
6	

You will roll the die 6 times.

1. What is the probability that you will use a polygon with four sides?
2. What is the probability that you will use a polygon with more than four sides?

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3. What is the probability that you will use a polygon with less than four sides?

For each roll, write down the type of shape that corresponds to the number in the space below.

Roll 1: _____

Roll 2: _____

Roll 3: _____

Roll 4: _____

Roll 5: _____

Roll 6: _____

Instructions: Create a unique artwork that uses ONLY the lines, colors, and shapes that you rolled. If you rolled a 1 twice for your shape, that means you will use two squares in your art. If you rolled a 4 three times for color, you will use purple three times in your art.

Be sure to include:
- Areas where your elements overlap
- Changes in line thickness
- Changes in shapes of size