

PROBABILITY

DIRECTIONS: CHOOSE THE BEST ANSWER. YOU MAY USE YOUR NOTES.

1. Jackson has 18 cards. Nine of them have butterflies on them and the others have flowers. What is the probability of drawing a card with a butterfly?

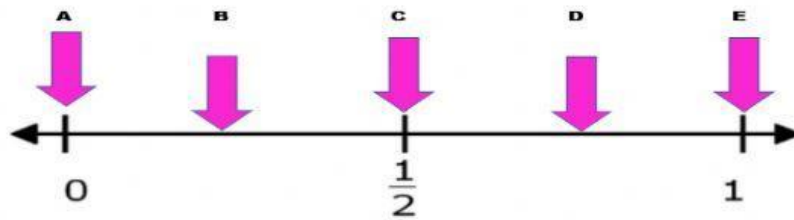
a. $\frac{1}{3}$

b. $\frac{1}{9}$

c. $\frac{9}{18}$

d. $\frac{9}{27}$

2. Makayla has marbles in her bag. There are orange and green marbles. All the marbles are the same size and shape. Makayla is least likely to select a green marble when she takes one marble out of her bag without looking. Which letter best represents the probability Makayla will select a green marble?



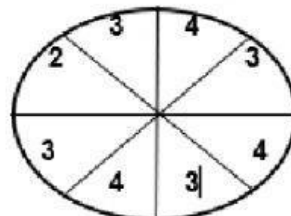
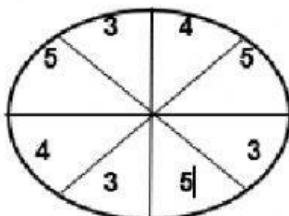
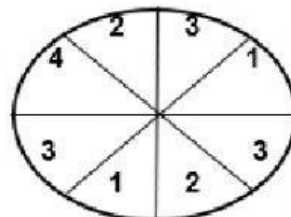
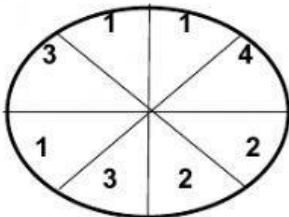
a. A

b. C

c. D

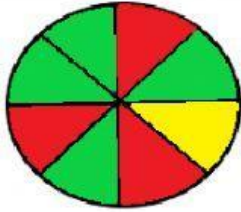
d. B

3. Identify two spinners that shows a $\frac{1}{8}$ chance of landing on the number 4.

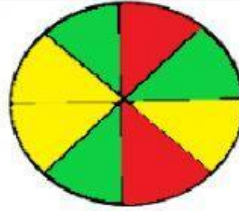


4. Which spinner shows that the probability of landing on a red section is $\frac{3}{8}$?

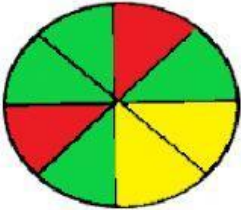
a.



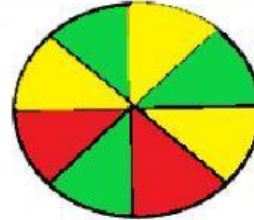
b.



c.



d.



5 - 9. Match the probability of an event happening with the correct probability.

5. Probability is 3 out of 9	a. Impossible
6. Probability is 9 out of 10	b. Unlikely
7. Probability is 12 out of 12	c. Equally Likely
8. Probability is 5 out of 10	d. Likely
9. Probability is 0 out of 8	d. Certain

10. The table below shows the number and types of doughnuts that were in the box.

Type of Doughnuts	Number of Doughnuts
Chocolate	5
Lemon	3
Blueberry	2
Glazed	2

Colin randomly chose a doughnut from the box. What is the probability of him choosing a blueberry doughnut?

a. $\frac{9}{12}$	b. $\frac{1}{3}$
c. $\frac{2}{12}$	d. $\frac{3}{9}$

11. Josie put these beads in a bag.



If Josie randomly draws a bead out of the bag, which of the following statements would be true?

- a. It is impossible for Josie to draw out a blue bead.
- b. It is certain that Josie will draw out a pink bead or a green bead.
- c. It is equally likely that Josie will draw out an orange bead.
- d. It is unlikely that Josie will draw out a pink or a purple bead.

12. Josie put these beads in a bag.



If Josie randomly draws a bead out of the bag, which of the following statements would be true?

- a. It is impossible for Josie to draw out a red bead.
- b. It is certain that Josie will draw out an orange bead or a green bead.
- c. It is likely that Josie will draw out a purple bead.
- d. It is likely that Josie will draw out a blue or a pink bead.