

Objective 5

Exercise 2

Probability and Statistics

Expectation: Use fractions to describe the results of an experiment

1. You have several new pencils in a drawer: 1 red, 2 blue, 2 green, and 1 yellow. If you take 1 pencil from the drawer without looking, what is the probability that it will be red?

- A $\frac{1}{6}$
B $\frac{1}{3}$
C $\frac{1}{2}$
D $\frac{5}{6}$

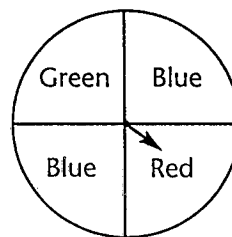
2. Mrs. Frank has jelly beans in a small jar. There are 5 cherry, 3 lime, 1 orange, and 1 licorice. If she takes 1 jelly bean from the jar without looking, what is the probability that it will be lime?

- A $\frac{1}{2}$
B $\frac{3}{7}$
C $\frac{1}{3}$
D $\frac{3}{10}$

3. A jar had 5 red marbles and 2 white marbles. Adam took 1 marble from the jar without looking and then placed it back in the jar. Then, Sandra chose 1 marble from the jar without looking. What is the probability of Sandra choosing a white marble?

- A $\frac{5}{7}$
B $\frac{1}{3}$
C $\frac{2}{7}$
D $\frac{1}{7}$

4. The spinner is divided into 4 equal sections. What is the probability of the arrow landing on blue when you spin?



- A $\frac{1}{4}$
B $\frac{1}{3}$
C $\frac{1}{2}$
D $\frac{2}{3}$

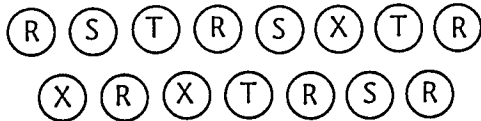
Objective 5

Exercise 8

Probability and Statistics

Expectation: Use experimental results to make predictions

1. A bowl contains 15 chips that are the same size and same shape but marked with different letters.



If you select a chip from the bowl without looking, which letter will you **most likely** select?

- A X
- B T
- C S
- D R

2. A box contains 12 marbles. The marbles are different colors. Each of 15 children selected a marble without looking, put the marble back, and recorded the results on the chart.

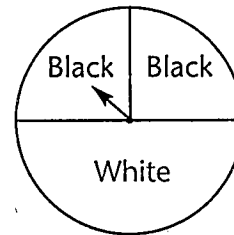
Marble Selection

Color	Number of Times
Black	
White	
Blue	

Based on the results shown in the chart, which is the best prediction of the number of black, white, and blue marbles in the box?

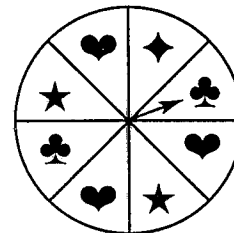
- A 3 black, 3 white, 6 blue
- B 4 black, 6 white, 2 blue
- C 5 black, 5 white, 2 blue
- D 1 black, 5 white, 6 blue

3. Jacob spun the spinner 20 times. Based on the spinner's layout, which is the best prediction of the results of Jacob's spins?



- A 5 black and 15 white
- B 6 black and 14 white
- C 10 black and 10 white
- D 15 black and 5 white

4. Grace spun the spinner 20 times. She landed on a certain symbol only once. Which symbol would that **most likely** be?



- A ♦
- B ♥
- C ♣
- D ★