

Homework (Online Learning Day 2)

Name: _____

Date: _____

1. A cereal company puts a colored ring in each box of cereal. There are 6 different ring colors. The colors of the rings in each of 50 cereal boxes are shown in the table below.

**RING COLORS IN
CEREAL BOXES**

Color	Number of Rings
Red	7
Blue	15
Green	8
Purple	10
Yellow	5
Orange	5

Based on the data, what is the probability that the next cereal box will contain a blue or a yellow ring?

A. $\frac{1}{6}$

B. $\frac{2}{5}$

C. $\frac{3}{5}$

D. $\frac{2}{3}$

2. A spinner is divided into four colored sections that are not of equal size: red, blue, purple, and orange. The arrow on the spinner is spun several times.

SPINNER RESULTS

Color	Number of Times
Red	15
Blue	24
Purple	12
Orange	9

The arrow on the spinner will be spun one more time. Based on these results, what is the probability that the arrow will land on the purple section?

A. $\frac{1}{4}$

B. $\frac{1}{5}$

C. $\frac{1}{6}$

D. $\frac{1}{12}$

3. A computer program selects blue, red, or green as the background color each time the program is used.
- The program was used 45 times on the same computer in one week.
 - Of those 45 times, a blue background appeared 12 times and a red background appeared 21 times.

Based on this information, which statement about the likelihood of the green background appearing the next time the program is used is true?

- A. Green is just as likely as red or blue to appear.
- B. Green is just as likely as blue to appear, but not as likely as red.
- C. Green is not as likely as red or blue to appear.
- D. Green is not as likely as blue to appear, but is as likely as red.

4. An owner of a small store knows that in the last week 54 customers paid with cash, 42 paid with a debit card, and 153 paid with a credit card. Based on the number of customers from last week, which fraction is closest to the probability that the next customer will pay with cash?

- A. $\frac{1}{5}$ B. $\frac{1}{4}$ C. $\frac{1}{3}$ D. $\frac{1}{2}$

5. A storeowner made a list of the number of greeting cards sold last month. The store sold 167 thank-you cards, 285 birthday cards, and 56 blank cards. Based on these data, which number is closest to the probability that the next customer will buy a blank card?

- A. 0.11 B. 0.33 C. 0.56 D. 0.89