



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 Holly works at a florist. She makes bouquets with **roses, carnations, or tulips**; she can add **baby's breath, greens, or a ribbon**; she can use a **vase or no vase**.  
Using the **counting principle**, how many different bouquets can she make?

- A 6      B 8      C 9      D 18

3 A teacher spun a spinner with 4 equal colors, **red, blue, yellow, and green**. Each student picked a color. Tony picked **blue**. The spinner was spun **5** times and the colors were: **G, Y, R, Y, Y**.  
What was the **experimental probability** of Tony getting a **blue** space?

2 Everyone in Amber's class picked a number from **1 to 10**. Amber picked **2**. The teacher pulled a number from a hat and wrote it down. The class did the experiment **10** times and the numbers pulled were **8, 2, 2, 4, 1, 1, 6, 2, 1, 2**. What is the **experimental probability** of pulling a **2**?

- A 10%      B 20%      C 30%      D 40%

4 **Six** orange, **5** white and **2** black marbles are in a bag. Doug guesses a **black** will be picked. He picks a marble and records the color **20** times. The colors picked are: **W, W, W, O, W, O, O, O, O, O, W, W, O, B, O, W, W, O, O**. What is the **experimental probability** that Doug's guess was right?

5



## PREVIEW

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7

What is the **probability** that a student will ride a bus?

- A  $\frac{3}{6}$       B  $\frac{5}{6}$       C  $\frac{3}{9}$       D  $\frac{5}{9}$

blue, or gold. What is the **probability** that it will be a **used car**?

- A  $\frac{12}{21}$       B  $\frac{18}{21}$       C  $\frac{6}{24}$       D  $\frac{18}{24}$

9

A **die** is rolled and a **coin** is flipped. What is the **probability** of getting a **2 or a head**?

- A 8%  
B 50%  
C 58%  
D 67%



10

On Mark's vacation, he wants to go **golfing, hiking, or canoeing** during the day. Then he wants to have a snack of either **pizza or ice cream**. At night, he wants to **bowl, play miniature golf, or watch a movie**. What is the **probability** that he will not play miniature golf?

- A 83%      B 67%      C 33%      D 17%



## ANSWER KEY

Holly works at a florist. She makes bouquets with **roses, carnations, or tulips**; she can add **baby's breath, greens, or a ribbon**; she can use a **vase or no vase**.

Using the **counting principle**, how many different bouquets can she make?

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A teacher spun a spinner with 4 equal colors, **red, blue, yellow, and green**. Each student picked a color. Tony picked **blue**. The spinner was spun **5** times and the colors were: **G, Y, R, Y, Y**. What was the **experimental probability** of Tony getting a **blue** space?

(d)

Everyone in Amber's class picked a number from **1 to 10**. Amber picked **2**. The teacher pulled a number from a hat and wrote it down. The class did the experiment **10** times and the numbers pulled were **8, 2, 2, 4, 1, 1, 6, 2, 1, 2**. What is the **experimental probability** of pulling a **2**?

(d)

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**Six** orange, **5** white and **2** black marbles are in a bag. Doug guesses a **black** will be picked. He picks a marble and records the color **20** times. The colors picked are: **W, W, W, O, W, O, O, O, O, O, W, W, O, B, O, W, W, O, O**. What is the **experimental probability** that Doug's guess was right?

(b)



## PREVIEW

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- A  $\frac{3}{6}$     B  $\frac{5}{6}$     C  $\frac{3}{9}$     D  $\frac{5}{9}$

A **die** is rolled and a **coin** is flipped. What is the **probability** of getting a **2 or a head**?

- A 8%  
B 50%  
C 58%  
D 67%

(c)

- A  $\frac{12}{21}$     B  $\frac{18}{21}$     C  $\frac{6}{24}$     D  $\frac{18}{24}$

On Mark's vacation, he wants to go **golfing, hiking, or canoeing** during the day. Then he wants to have a snack of either **pizza or ice cream**. At night, he wants to **bowling, play miniature golf, or watch a movie**. What is the **probability** that he will not play miniature golf?

(b)

- A 83%    B 67%    C 33%    D 17%