



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

1 What does  ${}_7P_4$  equal?

- A 0
- B  $3^5$
- C 840
- D 5040

2 How many arrangements can a 4-digit number be made from the numbers 2, 3, 4, 5, 6 using each number once?

- A 120
- B 256
- C 1024
- D 3125

3 How many arrangements of a 6-subject schedule can be made from 8 subjects?

- A 48
- B 720
- C 5040
- D 20,160

4 How many different combinations can be made from picking 2 snacks out of chips, pretzels, nachos, and popcorn?

- A 2
- B 4
- C 6

5

Horizontal  
Oblique  
Acute  
Right  
Vertical



## PREVIEW

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7

Horizontal  
Vertical

- A 252
- B 720
- C 5040
- D 30,240

- A  $\frac{1}{12}$
- B  $\frac{2}{12}$
- C  $\frac{1}{36}$
- D  $\frac{2}{36}$



9

There are 7 green and 8 yellow marbles in a bag. If one is picked, replaced and then another one is picked, what is the probability of picking two greens?

- A  $\frac{7}{15}$
- B  $\frac{7}{30}$
- C  $\frac{14}{30}$
- D  $\frac{49}{225}$



10

If a six-sided die is rolled and a coin is flipped, what is the probability getting a 2 or 4 and a head?

- A  $\frac{1}{4}$
- B  $\frac{1}{5}$
- C  $\frac{1}{6}$
- D  $\frac{1}{8}$





## ANSWER KEY

What does  ${}_7P_4$  equal?

- A 0
- B  $3^5$
- C 840
- D 5040

(C)

How many arrangements can a 4-digit number be made from the numbers **2, 3, 4, 5, 6** using each number **once**?

- A 120
- B 256
- C 1024
- D 3125

(a)

How many arrangements of a **6-subject** schedule can be made from **8** subjects?

- A 48
- B 720
- C 5040
- D 20,160

(d)

How many different **combinations** can be made from picking **2** snacks out of **chips, pretzels, nachos, and popcorn**?

- A 2
- B 4
- C 6
- D 12

(C)



## PREVIEW

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There are **7 green** and **8 yellow** marbles in a bag. If one is picked, replaced and then another one is picked, what is the **probability** of picking **two greens**?

- A  $\frac{7}{15}$
- B  $\frac{7}{30}$
- C  $\frac{14}{30}$
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(d)

If a six-sided die is rolled and a coin is flipped, what is the **probability** getting a **2 or 4** and a **head**?

- A  $\frac{1}{4}$
- B  $\frac{1}{5}$
- C  $\frac{1}{6}$
- D  $\frac{1}{8}$



(C)