



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

1 A **permutation** is an arrangement of objects where **order does not matter**.

True or false?

- A true
- B false

2 There are **4 chairs** in a room and **4 visitors**. How many **permutations** can be made?

- A 8
- B 16
- C 24
- D 256

3 **Six** students need to go to the nurse. The teacher has them walk in a line. How many **permutations**, or possible orders, will there be?

- A 12
- B 36

4 What is the number of **permutations** that can be made from the letters in the word **TABLE**?

- A 3125
- B 120
- C 25

5  
In  
t  
J  
V  
n  
A



## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

7  
H  
b  
th

- A 0
- B 2
- C 3
- D 6

CAT

- A 2
- B 4
- C 5
- D 6

9 Rory wants a snack. He can choose from an **apple**, an **orange**, **cookies**, **chips**, or **pretzels**. If he picks **2** items, how many possible **combinations** are there?

- A 7
- B 10
- C 25
- D 50

10 D.J. can choose **cereal**, **eggs**, **pancakes** and **bagels** for breakfast. Since he is starving, he chooses **two** items. What is the **probability** that he chooses **eggs and pancakes**.

- A  $\frac{1}{6}$
- B  $\frac{1}{8}$
- C  $\frac{1}{12}$
- D  $\frac{1}{16}$



## ANSWER KEY

A **permutation** is an arrangement of objects where **order does not matter**.

**True or false?**

- A** true
- B** false

(b)

There are **4 chairs** in a room and **4 visitors**. How many **permutations** can be made?

- A** 8
- B** 16
- C** 24
- D** 256

(c)

**Six** students need to go to the nurse. The teacher has them walk in a line. How many **permutations**, or possible orders, will there be?

- A** 12
- B** 36
- C** 690
- D** 720

(d)

What is the number of **permutations** that can be made from the letters in the word **TABLE**?

- A** 3125
- B** 120
- C** 25
- D** 10

(b)



## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

Rory wants a snack. He can choose from an **apple**, an **orange**, **cookies**, **chips**, or **pretzels**. If he picks **2** items, how many possible **combinations** are there?

- A** 7
- B** 10
- C** 25
- D** 50

(b)

D.J. can choose **cereal**, **eggs**, **pancakes** and **bagels** for breakfast. Since he is starving, he chooses **two** items. What is the **probability** that he chooses **eggs and pancakes**?

- A**  $\frac{1}{6}$
- B**  $\frac{1}{8}$
- C**  $\frac{1}{12}$
- D**  $\frac{1}{16}$

(a)