



Name _____ Class _____ Date _____

1 **Theoretical probability** is the probability based on all the possible outcomes.

True or false?

- A true
- B false

2 A pair of six-sided dice is rolled, what is the **probability** of getting **doubles**?

- A $\frac{1}{2}$
- B $\frac{1}{3}$
- C $\frac{1}{6}$
- D $\frac{1}{12}$



3 The letters in the word **STUDENTS** are put into a bag. What is the **probability** of picking the letter **T**?

- A $\frac{3}{8}$
- C $\frac{2}{7}$

4 A bag contains **4** orange, **12** black and **10** white marbles. What is the **probability** of picking a **white** marble?

- A $\frac{5}{28}$
- C $\frac{5}{18}$



PREVIEW

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- 7
- A 10
 - B 24
 - C 32
 - D 36

- A 10
- B 30
- C 36
- D 45



9 The notation $n!$ is **n factorial** and means that the numbers from n to **1** are **added together**. For example $3! = 3 + 2 + 1$.

True or false?

- A true
- B false

10 What does a **permutation** of ${}_6P_2$ mean?

- A 6 objects are filling 2 positions
- B 2 objects are filling 6 positions
- C 6 objects are filling 4 positions
- D 4 objects are filling 2 positions



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1 **Theoretical probability** is the probability based on all the possible outcomes.

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(A)

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(C)

3 The letters in the word **STUDENTS** are put into a bag. What is the **probability** of picking the letter **T**?

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(D)

4 A bag contains **4** orange, **12** black and **10** white marbles. What is the **probability** of picking a **white** marble?

- A $\frac{5}{18}$
- C $\frac{5}{19}$

(C)



(D)

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7

(B)

- A 10
- B 24
- C 32
- D 36

- A 10
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- D 45



9 The notation $n!$ is **n factorial** and means that the numbers from n to **1** are **added together**. For example $3! = 3 + 2 + 1$.

True or false?

- A true
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(B)

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(A)