



Name _____ Class _____ Date _____

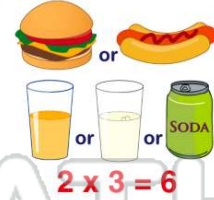
1 There are two main dishes: beef or chicken; three vegetables: corn, carrots or beans; and three desserts: cake, pie, or ice cream. **How many meal combinations are there?**

- A 8
- B 15
- C 18
- D 27



2 Using the **counting principle** means to take the number of different choices of items and multiply them together to get the total number of combinations.

- A true
- B false



3 You want to bake a cake. Your options are chocolate, vanilla, lemon, or carrot. Frosting choices are chocolate, vanilla, lemon, cream cheese, or whipped cream. Decorations can be sprinkles or candy pieces. **How many different types of cakes are possible?**

4 In high school, you need to pick your schedule for the next year. You have a choice of 4 Science classes, 2 Math classes, 3 English classes, and 2 History classes. **How many different schedules are possible?**



5

Y
h
c
d
p
c
A
E



PREVIEW

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7

- A $\frac{1}{3}$
- B $\frac{2}{3}$
- C $\frac{1}{4}$
- D $\frac{1}{6}$



- A true
- B false



9

You are picking from a deck of cards. **What is the probability of drawing a heart or a queen?**

- A $\frac{13}{52}$
- B $\frac{14}{52}$
- C $\frac{16}{52}$
- D $\frac{17}{52}$



10 When the **probability** of an event occurring is 1, it is **certain** to happen.

- A true
- B false



ANSWER KEY

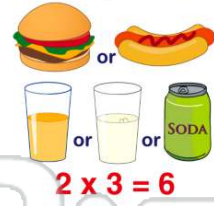
There are two main dishes: beef or chicken; three vegetables: corn, carrots or beans; and three desserts: cake, pie, or ice cream. **How many meal combinations are there?**

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(C)

Using the **counting principle** means to take the number of different choices of items and multiply them together to get the total number of combinations.



- A true
- B false

(a)

You want to bake a cake. Your options are chocolate, vanilla, lemon, or carrot. Frosting choices are chocolate, vanilla, lemon, cream cheese, or whipped cream. Decorations can be sprinkles or candy pieces. **How many different types of cakes are possible?**

- A 11
- B 12
- C 32
- D 33

In high school, you need to pick your schedule for the next year. You have a choice of 4 Science classes, 2 Math classes, 3 English classes, and 2 History classes. **How many different schedules are possible?**

- A 12
- B 14
- C 48
- D 50



(C)



PREVIEW

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- A $\frac{1}{3}$
- B $\frac{2}{3}$
- C $\frac{1}{4}$
- D $\frac{1}{6}$

You are picking from a deck of cards. **What is the probability of drawing a heart or a queen?**



(C)

- A $\frac{13}{52}$
- B $\frac{14}{52}$
- C $\frac{16}{52}$
- D $\frac{17}{52}$

- A true
- B false



When the **probability** of an event occurring is 1, it is **certain** to happen.

- A true
- B false

(a)