

# Homework: "Replace This"

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

## Practice with Independent Events

1

A, B, C

What is the probability that the spinner will land on a 5 and then a 1? Write your answer as a percent (Round to the 100ths)

2

Each spinner below is spun once. What is the probability that the result will be a three or a consonant? Write your answer as a fraction in lowest terms

3. Julia has a jar of 10 marbles, which contains 4 green, 2 white, 3 red, and 1 blue. What is the probability that she will pick a green marble, put it back inside the jar, and then pick it again?

B, C

4

B, C

You have a bag of 50 jelly beans. 15 are green. What is the probability of pulling out a color other than green? Write your answer as a percent

5

A

When rolling two number cubes simultaneously, what is the probability of rolling a 1 on one cube and a 6 on the other? Write your answer as a fraction in lowest terms.

6

A, B, C

A dice is rolled three times. The first roll is event A, the second roll event B, and the third event C. List below if the events are Independent or Dependent

Event A:  
Event B:  
Event C:

Tell whether the event is an example of a dependent event or an independent event:

A, B, C 7) Sally has a basket of 10 Expo markers - 5 red, 3 pink, 2 blue and 1 green. She chooses one marker from the basket, uses it, throws it away, and then chooses another one. What is the probability that both markers will be red.

Dependent or Independent?  
Why?

A, B, C 8) What is the probability that Tom chooses a Jack of Spades from a deck of cards, and gets a head after flipping his coin?

Dependent or Independent?  
Why?

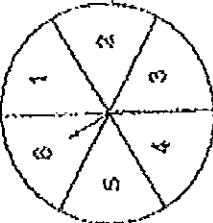
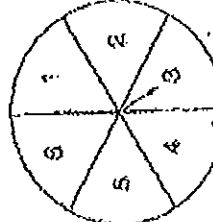
A, B, C 9) What is the probability of choosing the name "Belle" on the spinner and choosing a red marble from the bowl?

Dependent or Independent?  
Why?

A, B, C 10) What is the probability of choosing the name "Belle" on the spinner, eliminating that name, and then choosing the name "Brutus"?

Dependent or Independent?  
Why?

Find the probability of each set of events. Express your answer as a fraction, decimal and percent.

$P(5, 5) =$ _____	$P(6, 2) =$ _____	
$P(4, \text{not } 2) =$ _____	$P(\text{not } 1, 6) =$ _____	
$P(3, >4) =$ _____	$P(\geq 4, 1) =$ _____	21 ABC
$P(\text{even, odd}) =$ _____	$P(\text{even, } 3) =$ _____	22 ABC
$P(\text{not } 2, \text{not } 9) =$ _____	$P(\text{not } 1, \text{even}) =$ _____	23 ABC

A 11

ABC 12

ABC 13

ABC 14

ABC 15