

Name: \_\_\_\_\_

## Let's Review

1. What is the probability of rolling a die twice and getting a 5 both times?
2. What is the probability of rolling a die twice and getting an even number on both rolls?
3. What is the probability of rolling a die twice and getting a 3 on the first roll and a prime number on the second roll?
4. You have a hat with the numbers 1-20 in it. What is the probability of someone picking the number 7, replacing the number, and picking 7 again?
5. You have a hat with the numbers 1-20 in it. What is the probability of someone picking the numbers 2 or 12, replacing the number, and then picking a single digit number?
6. You have a hat with the numbers 1-20 in it. What is the probability of someone picking the number 5, not replacing the number, and then picking the number 2?

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## **A career in the medical field might be neat!**

A recent study by the American Pediatrics Association showed that 45% of children under the age of three years old are likely to get ear infections, while 20% are likely to get strep throat. Complete the table to determine the following probabilities.

	<b>Ear infections (0.45)</b>	<b>No ear infections (0.55)</b>
<b>Strep throat (0.2)</b>		
<b>No strep throat (0.8)</b>		

1. What is the probability that a child under the age of three will have both an ear infection and strep throat?
  
  
  
  
  
  
  
  
  
  
2. What is the probability that a child under the age of three will have an ear infection but not have strep throat?
  
  
  
  
  
  
  
  
  
  
3. What is the probability that a child under the age of three will not have an ear infection but will have strep throat?
  
  
  
  
  
  
  
  
  
  
4. What is the probability that a child under the age of three will not have an ear infection nor will they have strep throat?

Name: \_\_\_\_\_

A recent study released by the *Journal of the American Medical Association* presented findings that showed that 70% of all Americans over the age of 72 are likely to have a stroke and 60% are likely to break at least one bone. Complete the table to determine the following probabilities.

	<b>Stroke (0.7)</b>	<b>No stroke (0.3)</b>
<b>No broken bones (0.4)</b>		
<b>Broken bones (0.6)</b>		

5. What is the probability that someone over the age of 72 will have both a stroke and a broken bone?
6. What is the probability that someone over the age of 72 will have a stroke but not break a bone?
7. What is the probability that someone over the age of 72 will not have a stroke but will break a bone?
8. What is the probability that someone over the age of 72 will not have a stroke nor will they have a broken bone?