

**(1-3) Events A and B are independent. Find the indicated probability.**

1)  $P(A) = 0.3$   
 $P(B) = 0.4$   
 $P(A \text{ and } B) = \underline{\hspace{2cm}}$

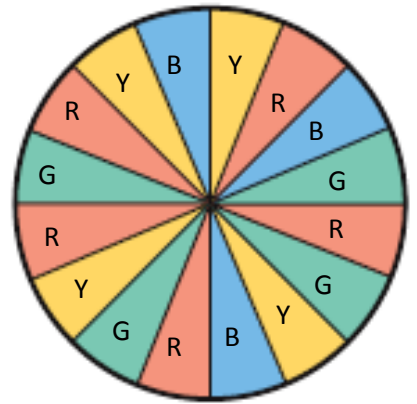
2)  $P(A) = 0.5$   
 $P(B) = \underline{\hspace{2cm}}$   
 $P(A \text{ and } B) = 0.1$

3)  $P(A) = \underline{\hspace{2cm}}$   
 $P(B) = 0.9$   
 $P(A \text{ and } B) = 0.45$

**(4-6) You are playing a game that involves spinning the wheel shown. Find the probability of spinning the given colors.**

4) red, then yellow

5) yellow, then green



6) blue, then green, then red

**(7-9) Events A and B are dependent. Find the indicated probability.**

7)  $P(A) = 0.3$   
 $P(B | A) = 0.6$   
 $P(A \text{ and } B) = \underline{\hspace{2cm}}$

8)  $P(A) = 0.8$   
 $P(B | A) = \underline{\hspace{2cm}}$   
 $P(A \text{ and } B) = 0.32$

9)  $P(A) = \underline{\hspace{2cm}}$   
 $P(B | A) = 0.4$   
 $P(A \text{ and } B) = 0.2$

**(10-13) Let  $n$  be a randomly selected integer from 1 to 20. Find the indicated probability.**

10)  $n$  is 2 given that it is even

11)  $n$  is 5 given that it is less than 8

12)  $n$  is prime given that it has 2 digits

13)  $n$  is odd given that it is prime

**(14-19) Find the probability of drawing the given cards from a standard deck of 52 cards (a) with replacement and (b) without replacement.**

14) A club, then a spade	a.	b.
15) A queen, then an ace	a.	b.
16) A face card, then a 6	a.	b.
17) A 10, then a 2	a.	b.
18) A king, then a queen, then a jack	a.	b.
19) A spade, then a club, then another spade	a.	b.

