# Unit 6 Day 4 CW

**Directions**: Circle the type of event for each question and then find the probability in the space provided.

the	space provided.			
1.	Kenya is trying to find matching socks. There are 4 red socks, 6 blue socks, and 2 white socks in her drawer. What is the probability that Kenya will pull out a blue sock, put it on, and then pull out another blue sock to put on?	Simple Solution:	Independent	Dependent
2.	What is the probability of rolling a 4 on a number cube?	Simple Solution:	Independent	Dependent
3.	What is the probability of pulling the letter "s" out of the word Mississippi?	Simple Solution:	Independent	Dependent
4.	Your favorite flavor of gum is green apple. The gumball machine contains 10 grape gumballs, 12 strawberry gumballs, 3 lemon gumballs, and 10 green apple gumballs. What is the probability that you will <i>not</i> get your favorite gumball from the machine?	Simple Solution:	Independent	Dependent
5.	What is the probability of rolling a 4 on a number cube and pulling a red marble out of a bag that contains 3 red, 2 black, and 5 yellow marbles?	Simple Solution:	Independent	Dependent
6.	A deck of playing cards contains 52 cards. What is the probability of pulling out a King of Diamonds and without replacing it, then an Ace of Spades?	Simple Solution:	Independent	Dependent
7.	Diamond is playing a game. In the game she has to spin a spinner that is divided into equal sections of orange, red, purple, and pink. What is the probability that on her first spin she will land on pink and then red on her second spin?	Simple Solution:	Independent	Dependent
8.	Numbers 1 to 20 are placed in a bag. Without replacing the first number, what is the probability that the first number drawn will be odd and the second one will be even?	Simple Solution:	Independent	Dependent

9. On a shelf there are 60 nove What is the probability that F and walks away with it and t shortly after and picks anoth	Person A chooses a novel hen Person B walks up	Simple Solution:	Independent	Dependent
10. In a classroom there are 100 are boys, 30 of the 100 stude are boys who wear glasses. I class is randomly selected wh the student will be a girl who	ents wear glasses, and 15 If one student from the nat is the probability that	Simple Solution:	Independent	Dependent
11. Two cards are drawn from a one after the other. If the fir find the probability of selection and a queen on the second of	st card is not replaced, ng a king on the first draw	Simple Solution:	Independent	Dependent
12. 10 cards are numbered from are drawn at random. If two replacement, find the probab number in both the first and	cards are drawn with ility of choosing a prime	Simple Solution:	Independent	Dependent
13. What is the probability of ge single number cube numbere		Simple Solution:	Independent	Dependent
14. What is the probability of lan tossing a coin and then rollin number cube?		Simple Solution:	Independent	Dependent
15. What is the probability of lan tossing a coin?	ding on heads when	Simple Solution:	Independent	Dependent

## Unit 6 Day 4 HW

1. What is the sample space of tossing a coin and spinning a spinner with colors red, blue, yellow and green?

2. In question 1, what is the probability that you will flip heads and spin yellow?

3. What is the probability of picking a spade from a deck of cards, replacing it, then picking an ace?

4. What is the probability of being dealt a hand of 3 cards that are all red?

5. What is the probability that you will pick a heart or a face card from a standard deck of cards?

6. How many outcomes are possible when flipping a coin, tossing a die and picking a card from a standard deck of cards?

7. What is the probability of picking a boy in our class or picking someone with blonde hair?

8. There are 18 blue marbles, 2 green marbles and 10 yellow marbles in a bag. What is the probability of picking a green or blue marble?

9. There are 18 blue marbles, 2 green marbles and 10 yellow marbles in a bag. What is the probability of picking a blue marble three times in a row without replacing the marble each time?

# Why Did the Actor Jump Out Of a Window In Times Square?

Find each answer in the set of answere under the exercise. Write the exercise letter in that box.

Find each probability if you spin both spinners.

- T. P(blue, A)
- E. P(red, A)
- O. P(white, B) D. P(not blue, B)

#### Find each probability if you spin the spinner and roll the die.

- A. P(white, 2)
- H. P(black, 6)
- K. P(not striped, odd)

T. P(striped, less than 5)

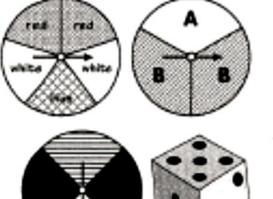
A. P(not red, A)

E. P(not white, B)

E. P(white, even) W. P(green, odd)

### R Solve.

M. Suppose the probability that a new spark plug is defective is  $\frac{1}{24}$ . And suppose you buy two new spark plugs for a motorcycle. What is the probability that both of them are defective?



N. A test includes several multiple choice questions, each with five choices. Suppose you don't know the answers for three of these questions, so you guess. What is the probability of getting all three correct?

"ARKANSAS": Find each probability if you pick a cord, do NOT replace it, then pick a second cord.

- O. P(N, then K)
- B. P(S. then A)
- A. P(R, then S)
- P(A, then N)

Find each probability if you pick two marbles without replacing the first (G = green; R = red; Y = yellow).

- O. P(red, then green)
  - N. P(yellow, then not yellow)
- A. P(red, then yellow) T. P(green, then not green)
- D. P(not red, then not red) W. P(green, then green)

# B Selve.

- H. Two students are chosen at random from a class of 30. What is the probability that both you and your best friend are chosen?
- R. Two cards are drawn at random from a standard deck of 52 cards. What is the probability that both cards are aces?

$\frac{1}{12}$	$\frac{7}{18}$	$\frac{1}{435}$	3 50	$\frac{5}{18}$	$\frac{2}{869}$	$\frac{1}{56}$	$\frac{1}{4}$	$\frac{3}{220}$	$\frac{3}{28}$	$\frac{1}{221}$	<u>1</u> 9	<u>15</u> 56	$\frac{7}{12}$	1 6	$\frac{1}{28}$	$\frac{3}{14}$
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A	R	κ	A
N	S	A	S

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R	R	۲	۲	$^{\odot}$

- Y. P(S, then not S)
- A. P(A, then not A)