NAME:	Period: SCORE: /%=%
	HW 9-3
Int 1	Compound Probability Unit 9
<b>Refer to the spinners on the rig</b> <b>answers as SIMPLIFIED frac</b> <b>1)</b> P(A and 1)	ght to find the probability of each outcome. Write your tions.
<b>2)</b> P(C and 2)	$\begin{array}{c c} A \\ A \\ C \\ A \\ C \\ A \\ \end{array}$
	7) F (a consonant and an odd humber)
<b>3)</b> P(B and 4)	
<b>4)</b> P(A and 3)	<b>8)</b> P(a vowel and a 5)
<b>5)</b> P(C and 4)	9) P(a consonant and a prime number)
<b>6)</b> P(B and 5)	<b>10)</b> P(a vowel and a number less than 4)
	<ul> <li>a, 6 white marbles, 3 blue marbles, and 7 green marbles. Once a</li> <li>b. Find the probability of each outcome. Write your answers as</li> <li>b. green marble</li> <li>13) a red marble three times in a row</li> </ul>

12) a blue marble and then a red marble 14) P(white, then blue, then white)

In a bag, there are 5 red marbles, 6 white marbles, 3 blue marbles, and 7 green marbles. Once a marble is selected, **it is NOT replaced**. Find the probability of each outcome. Write your answers as fractions.

**15)** 2 red marbles in a row

**17)** P(blue, then red, then green)

16) 2 green marbles in a row

**18)** P(blue, then blue, then blue)

## For each game, find the indicated probability.

**19)** To win a carnival prize, you need to choose one of 3 doors labeled 1 through 3. Then you need to chose a red, yellow, or blue box behind each door. What is probability that the prize is in the blue or yellow box behind door 2?

## Mr. and Mrs. Romero are expecting triplets. Suppose the chances of each child being a boy is equally likely. Write your answers as SIMPLIFIED fractions.

20)	Create a tree diagram to see all possible	21)	Find the P(all three children will be boys)
combinations of the genders of their triplets.			

- 22) Find the P(at least one is a boy and one is a girl)
- 23) Find the P(two boys and one girl)
- **24)** Find the P(at least two girls)

## EXTRA CREDIT: Write your answers as simplified fractions.

- **25)** Alana tosses 2 number cubes. She wins if she rolls doubles of any number. Find the probability that she will win.
- 26) Ming rolls a number cube, tosses a coin and chooses a card from two cards marked A or B. If an even number and heads appears, Ming wins no matter which cards is chosen. Otherwise Lashonda wins. Find P(Ming wins).