

Test 10.1-10.3 (probability)

Name: _____

1. Complete the table, then answer the question:

	Pink	Red	Blue	Total
Boys	3	8	15	26
Girls	17		6	
Total	20		21	61

$P(\text{not boys}) = \frac{\quad}{61}$ Likelihood _____

$P(\text{red}) = \frac{\quad}{61}$ Likelihood _____

2. What is the **sample space** for a bag of marbles with 3 red and 2 green marbles?

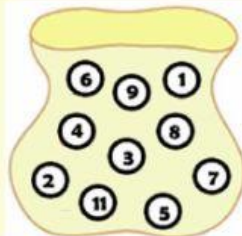
- A) {3Red, 2Green}
- B) {Red, Red, Red, Green, Green}
- C) {Red, Green}
- D) {3, 2}

3. If the **sample space** of numbers 1 through 10 is used, what is the $P(\text{odd number})$

- A) Impossible B) Unlikely C) Equally Likely
- D) Likely E) Certain

4. Find the **probabilities** for :

Total =

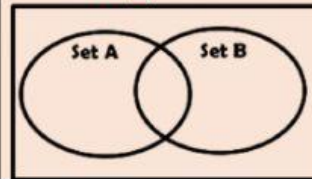


$P(\text{\# even}) = \frac{\quad}{\quad}$ Likelihood=

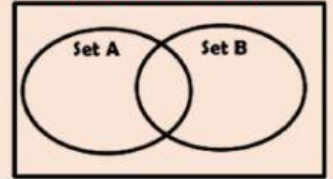
$P(\text{\# less than 15}) = \frac{\quad}{\quad}$ Likelihood=

5. Check mark the boxes that match the given:

$P(A)$



$P(\text{not A and not B})$

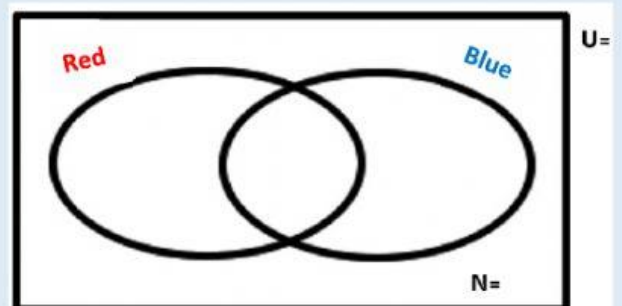


6. Create the **tree diagram** for the example: **flipping a coin then roll a 4 sided die** (Type your answers ;)



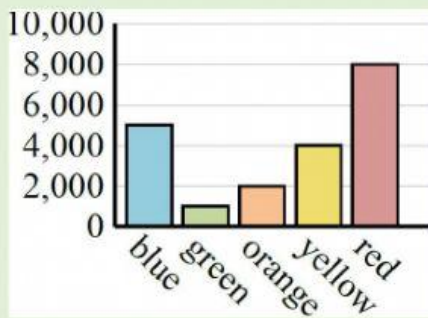
The size of the **sample space** is: _____

7. In a class of 40 students, 20 like red and 17 like blue. If 8 students like both colors, complete the Venn diagram (fill in each box) :



Likelihood of **neither** color _____

8. Complete the table using the bar graph:



Favorite color	yellow	red	orange	blue	green
People					

Total people =

9. Complete the **word search** (select below)

S	B	O	O	T	U	N	I	V	E	R	S	A	L
O	M	L	A	E	E	E	R	T	S	N	P	R	P
R	T	B	T	N	V	E	T	N	L	E	I	S	R
R	L	B	N	B	S	B	O	L	B	N	N	P	O
E	T	E	E	B	C	I	L	B	T	E	N	A	B
H	V	M	T	I	T	R	A	A	E	N	E	C	A
T	N	U	B	P	T	G	E	Y	S	P	R	E	B
I	E	G	O	M	A	R	B	L	E	A	I	E	I
E	T	E	I	M	N	V	T	M	E	V	U	P	L
N	E	Q	U	A	L	Y	L	I	K	E	L	Y	I
H	E	S	C	E	L	P	M	A	S	V	P	B	T
R	T	T	L	D	I	A	G	R	A	M	P	D	Y
N	O	O	O	I	M	P	O	S	S	I	B	L	E
I	E	O	B	N	I	A	T	R	E	C	B	A	S

TABLE
SAMPLE
BAG
SET
UNIVERSAL
EQUALLYLIKELY
MARBLE
BOTH
OPTIONS
NEITHER
PROBABILITY
IMPOSSIBLE
TREE
CERTAIN
SPACE
DIAGRAM
SPINNER
VENN