Math II - Venn Diagrams in Context

Name _____

Classmate Name	1	2	3
A			
B			
C			
D			
E			
F			
G			
H			
I			
J			
K			
L			
M			
N			
O			
P			
Q			
R			
S			
T			
U			
V			
W			
X			
1			
2			
3			
4			
5			
6			
7			
8			
9			

Come up with three yes-or-no questions
that you think will have balanced results.
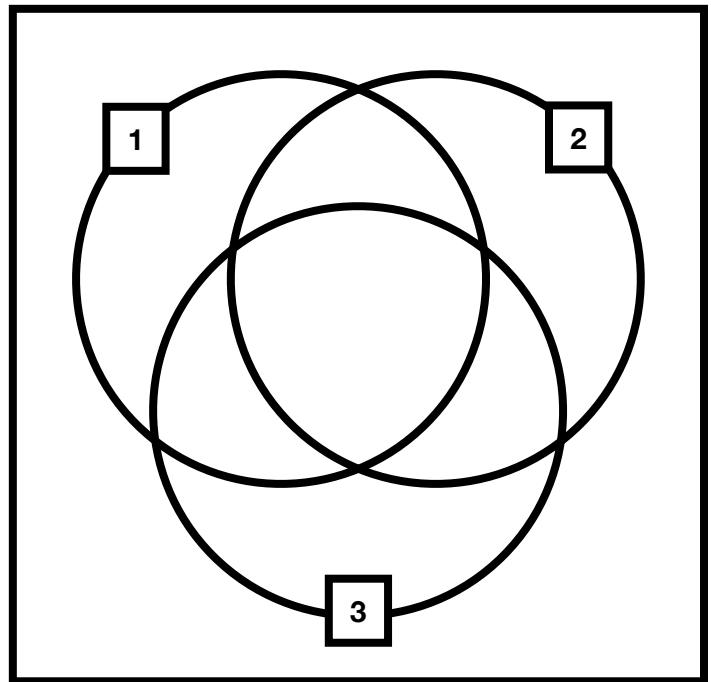
1 _____?

2 _____?

3 _____?

Ask these questions to all your classmates.

Record their names and answers in the table.
Y — yes   **N** — no

Once your table is complete,
write each person's desk letter (or number)
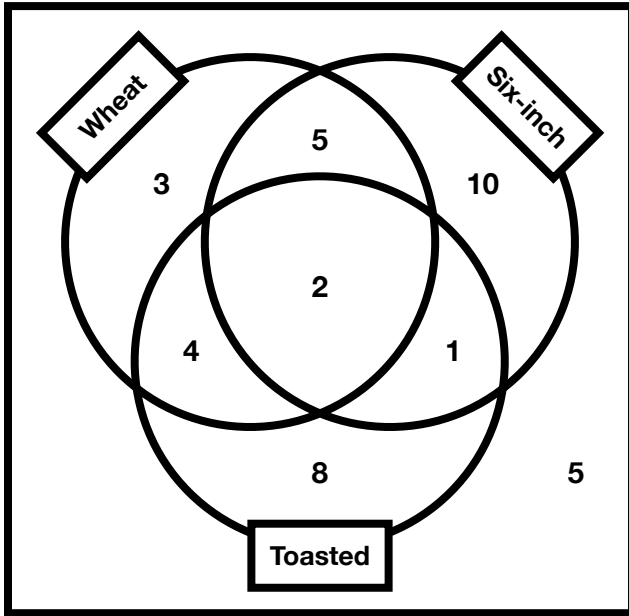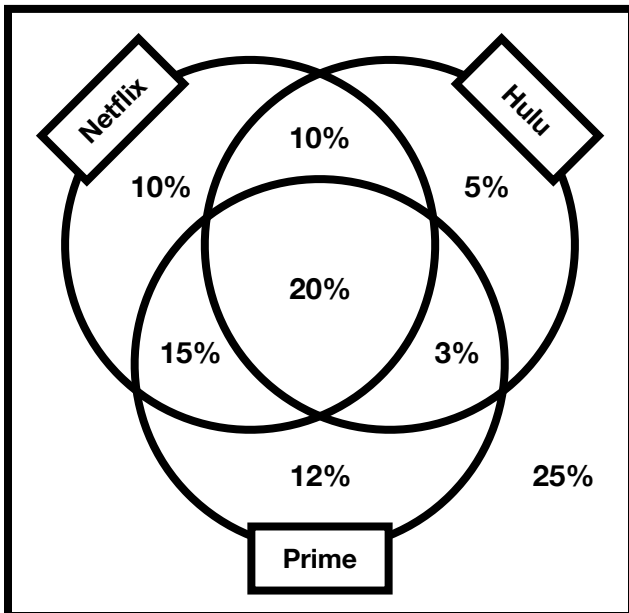in the Venn diagram below.

GLORY
if you got at least two people
in each of the eight regions

SUBWAY

Customize your sandwich.
Bread: Wheat / White
Size: Six-inch / Footlong
Toasted: Yes / No

Venn Diagram 1 — Wheat / Six-inch / Toasted

Wheat: 3
Six-inch: 10
Wheat ∩ Six-inch: 5
Center (all three): 2
Wheat ∩ Toasted: 4
Six-inch ∩ Toasted: 1
Toasted: 8
Outside: 5

1) How many ordered wheat **and** six-inch? _____

2) How many ordered wheat **or** six-inch? _____

3) How many ordered toasted? _____

4) How many ordered white? _____

5) How many ordered white **and** toasted? _____

6) How many ordered white **or** toasted? _____

7) How many did not order six-inch? _____

8) Four people ordered the same sandwich style.

What was it? _____ _____ _____

9) How many are in the sample space? _____

Venn Diagram 2 — Netflix / Hulu / Prime

Netflix: 10%
Hulu: 5%
Netflix ∩ Hulu: 10%
Center (all three): 20%
Netflix ∩ Prime: 15%
Hulu ∩ Prime: 3%
Prime: 12%
Outside: 25%

10) What question were people asked?

_____

11) Which service has the most subscribers?

_____

12) What percent have Netflix **or** Prime? _____

13) What percent have Netflix **and** Prime? _____

14) What percent do not have Hulu? _____

15) What percent have only Netflix? _____

16) 3% of people have what? _____

17) What percent have at least two services? _____