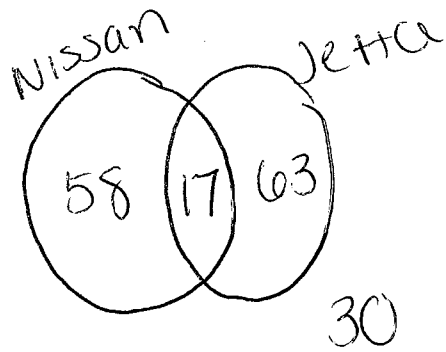


Name: Key
DISCRETE

Date: 7/13/18
TROICI/GOSSE

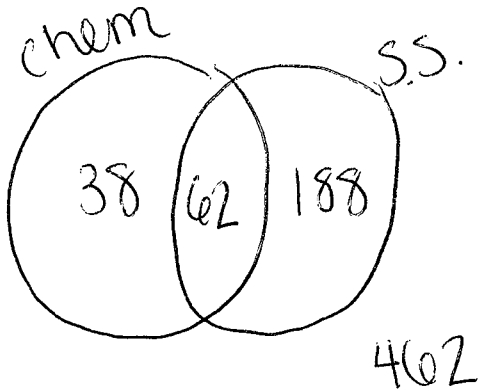
VENN DIAGRAM PARTNER ASSIGNMENT

1. If 75 people have a Nissan, 80 people have a Jetta, 17 people have both, and 30 have neither, how many people are there in total?



$$58 + 17 + 63 + 30 = \boxed{168}$$

2. Of 750 students 100 take Chemistry, 250 take Social Studies, and 62 take both chemistry and Social Studies. How many students take neither?



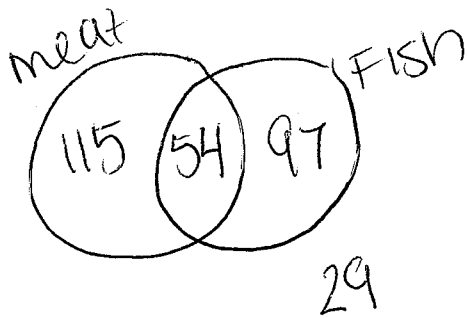
$$750 - (38 + 62 + 188) = \boxed{462}$$

3. Out of 400 homes, 70 only have a washing machine, 80 only have a dryer and 100 have both. How many don't have a washer or a dryer?



$$400 - (70 + 100 + 80) = \boxed{150}$$

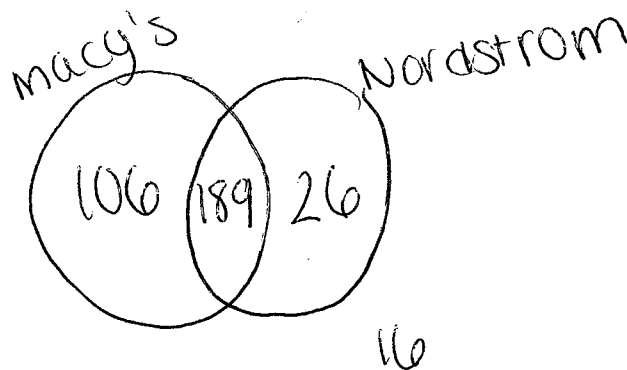
4. A survey found that 115 people eat only meat, 97 people eat only fish and 54 people eat both. If 29 people do not eat meat or fish, how many people participated in the survey?



$$115 + 54 + 97 + 29 =$$

$$\boxed{295}$$

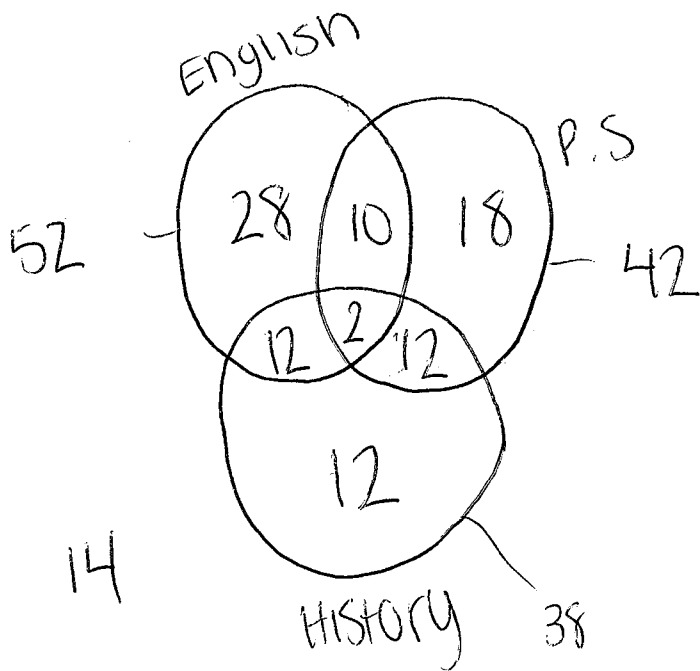
5. If a survey of 337 people were taken. It showed 215 people shop at Nordstrom, 189 people shop at Nordstrom and Macys and 16 shop at neither. How many people shop at Macys?



$$337 - (189 + 26 + 16) = \boxed{106}$$

6. A survey of 108 juniors at Mepham High School showed the following:

- 52 take English
- 48 take Political Science
- 38 take History
- 12 take only Political Science and History
- 10 take only Political Science and English
- 12 take only History and English
- 2 take all three



$$108 - (28 + 10 + 18 + 12 + 2 + 12 + 2) = 14$$

How many students:

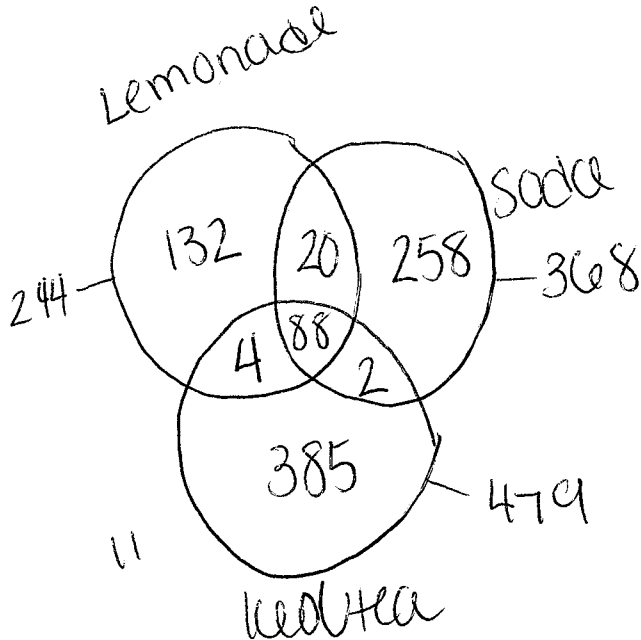
- 1) take English and not the other two? 28
- 2) take none of the three classes? 14
- 3) take History and not the other two? 12
- 4) take Political Science and History but not English? 12
- 5) do not take Political Science?

$$28 + 12 + 12 = 52$$

★ FIX! ★
900

7. The list of ~~700~~ people were surveyed in the Cafeteria:

- 244 like Lemonade
- ✓ 368 like Soda
- ✓ 479 like Iced Tea
- ✓ 86 like Iced Tea and Soda
- ✓ 68 like Lemonade and Soda
- ✓ 84 like Lemonade and Iced Tea
- ✓ 88 like all three



1) How many people prefer none of the three?

111

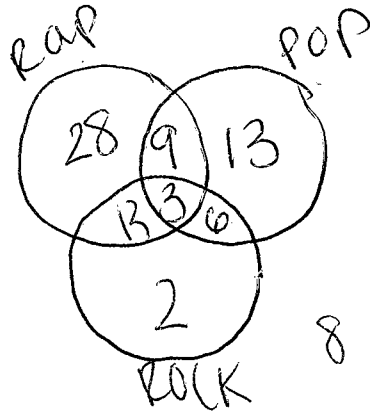
2) How many people prefer lemonade, but no soda?

$$132 + 4 + 385 = 521$$

3) How many people prefer anything but Iced Tea?

$$132 + 20 + 258 = 410$$

- 8) A survey of 2100 listeners were asked what kind of music they like:
- 12 people like rap and pop ✓
 - 8 people have no preference ✓
 - 28 prefer rap only ✓
 - 16 like rap and rock ✓
 - 2 people like only rock ✓
 - 13 prefer pop only ✓
 - 34 prefer rock ✓
 - 3 like all three ✓



- 1) How many people were surveyed?
74
- 2) How many people like just pop and rock?
6
- 3) How many people like pop?
31

