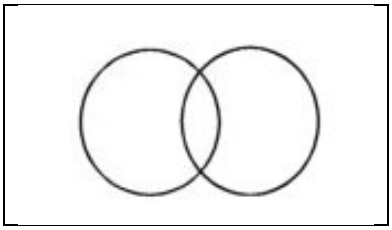
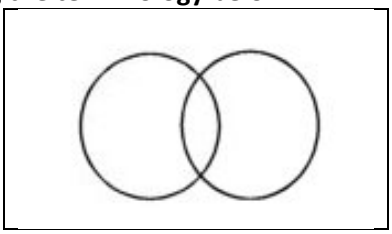
Exploring the World of Math

Name: _____ Date: _____

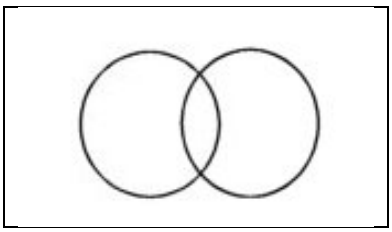
1. Draw and label the Venn diagrams matching the terminology below



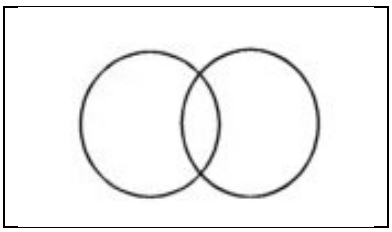
a. ~A



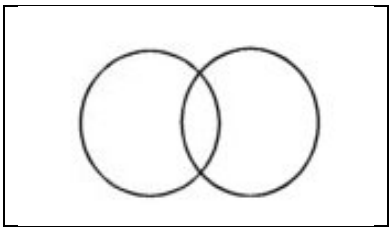
b. A'



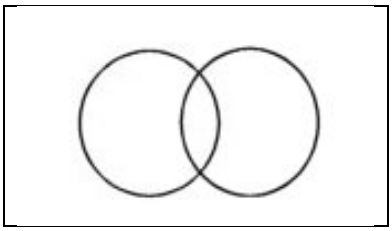
c. S U T



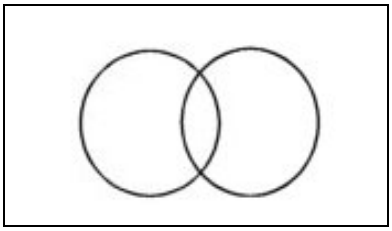
d. ~(C U D)



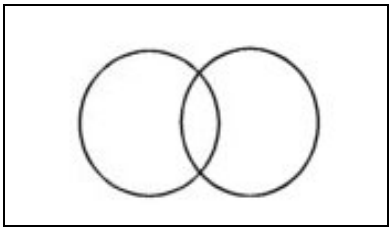
e. ~(S ∩ T)



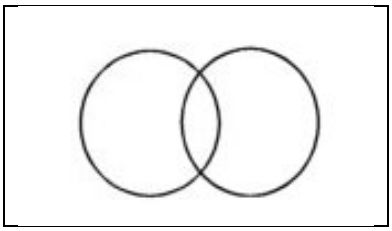
f. B'



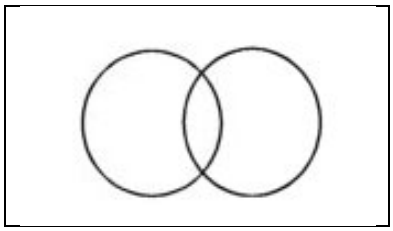
g. A U B – (A ∩ B)



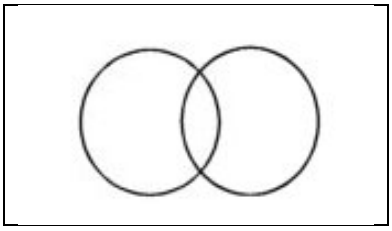
h. C ∩ D



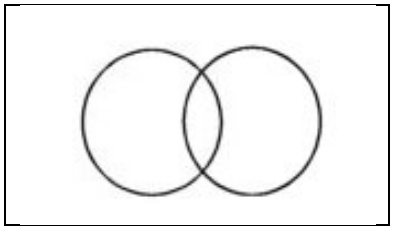
i. Φ



j. S ∩ T + ~(S U T)

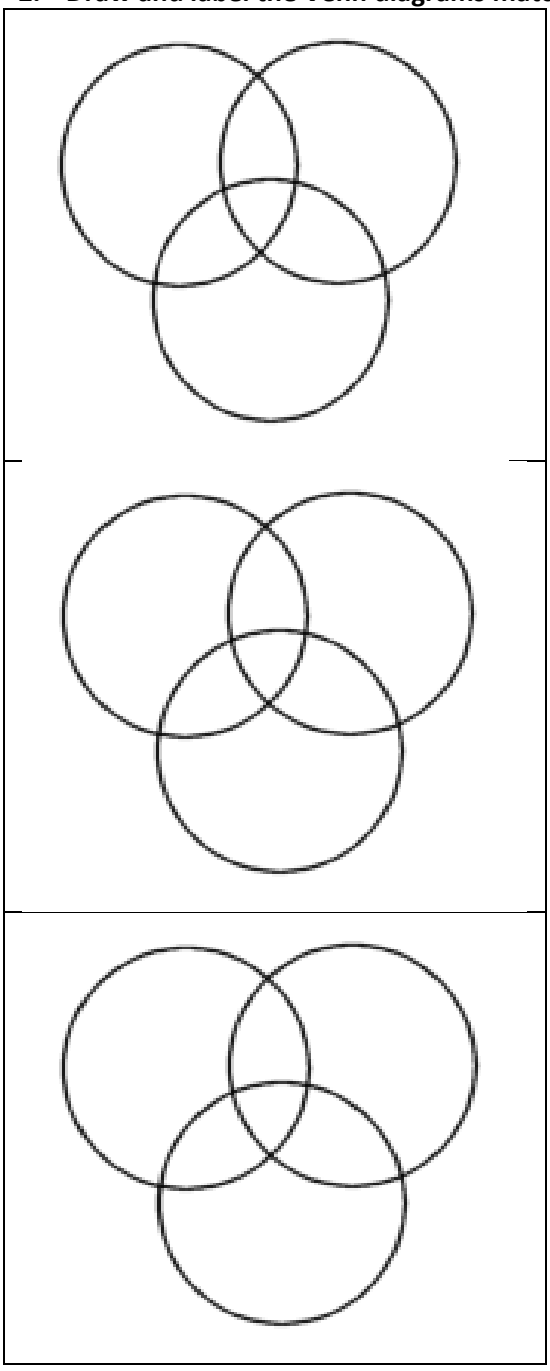


k. U (universal)



l. A - B

2. Draw and label the Venn diagrams matching the terminology below



3. (R U S) ∩ T

4. (A U B)

5. (A ∩ B) + (B ∩ C) + (A ∩ C)

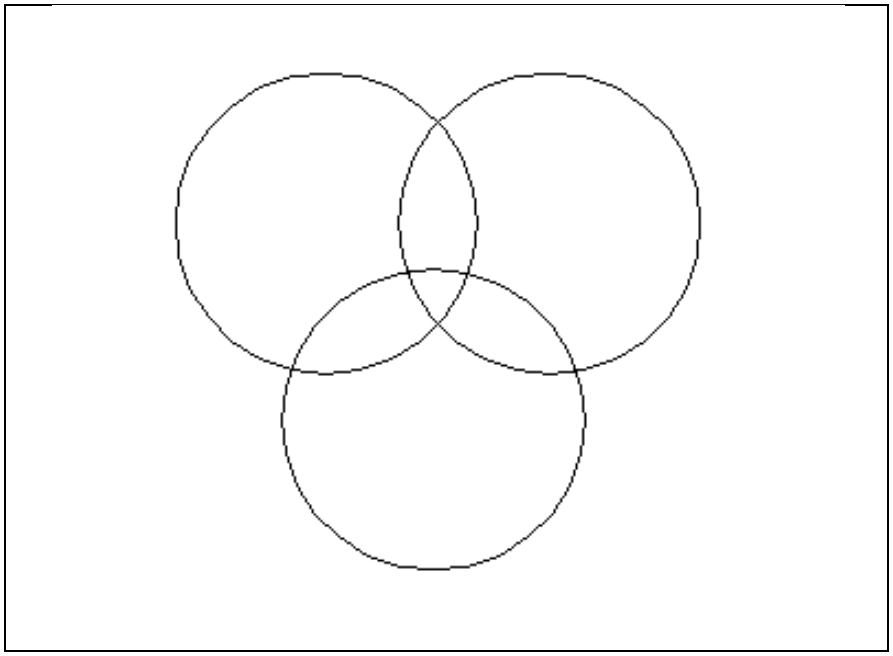
6. Place the correct numbers and labels in the Venn Diagram

350 people were tested about their sleeping habits. They were asked what sleeping habits they follow consistently.

Snore	120
Toss and turn	116
Bad dreams	108
Snore and toss / turn	22
Snore and bad dreams	25
Bad dreams and toss and turn	27
All three	10

How many people just snore only?

How many people just have bad dreams only?



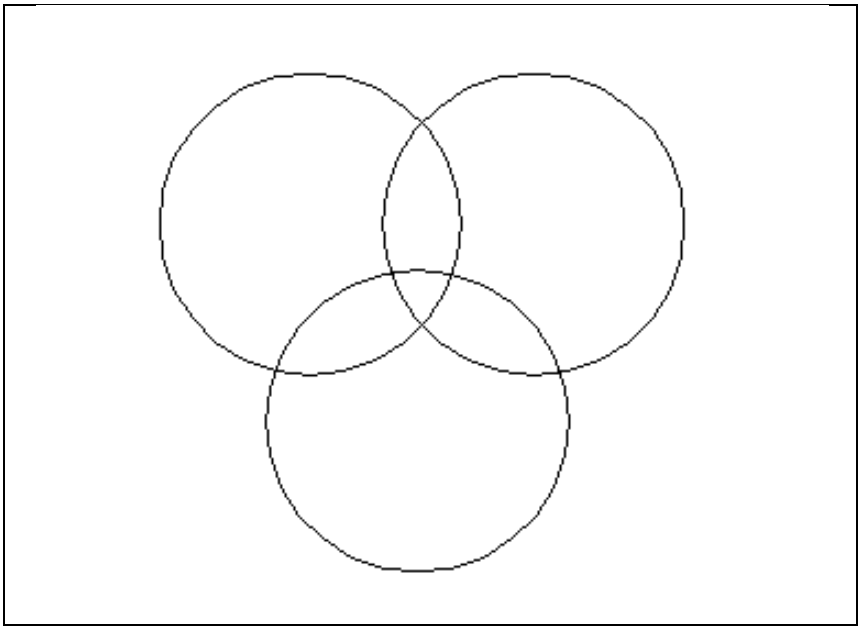
7. **Place the correct numbers and labels in the Venn Diagram**

400 pet owners were surveyed. Place the results of the survey in a Venn diagram.

Owners with:

Dogs	85
Cats	63
Rabbits	21
Dogs and cats	28
Dogs and rabbits	3
Cats and rabbits	4
All three	3

How many people have just cats only?

How many people have rabbits only?

How many people just have dogs and cats?