

Set Theory

Vocabulary + Notation

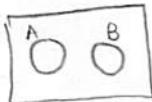
- Universal Set - " U "

- Subset

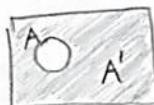


- Empty Set - "{} or \emptyset "

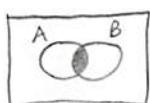
- Disjoint Sets



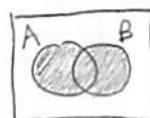
- Complement - " A' "



- Intersection - " $A \cap B$ "



- Union - " $A \cup B$ "



Solve Problems

- Organize data in Venn diagrams

or

Data already in Venn diagram

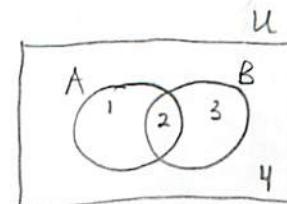
- Two set or Three set problems

- Questions stated using...

↳ Describing Words
(and, or, not, only, etc.)

↳ Set Vocabulary
(union, intersection, etc.)

↳ Set Notation
($A \cap B$, B' , $(A \cup B)'$, etc)



Description	Vocabulary	Notation	Region #'s
Everything	Universal Set	U	1,2,3,4
Not A	Complement of A	A'	3,4
A and B	A intersect B	$A \cap B$	2
A or B	A union B	$A \cup B$	1,2,3
Only A	—	$A \cap B'$	1
Neither A or B	Complement of A union B	$(A \cup B)'$	4

Key Words

↳ and = intersection = $A \cap B$

↳ or = union = $A \cup B$

↳ not = complement = A'