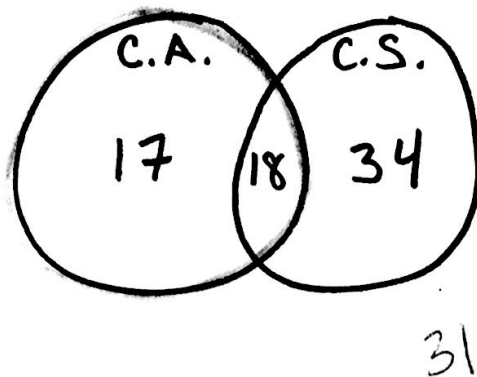


Venn Diagrams are used to show relations between sets (collections of things).

In a survey of 100 college students, 35 were registered in College Algebra, 52 were registered in Computer Science I and 18 were registered in both courses.

A) Construct a Venn Diagram of this information.



B) How many students were registered in College Algebra or Computer Science I? $P(CA \cup CS)$

$$17 + 18 + 34 = 69 \text{ students}$$

C) How many were registered in neither course? $P(CA \cup CS)^c$

$$100 - 69 = 31 \text{ students}$$

Using the language of Set Theory,

the symbol \cap means "and" or "intersection"

the symbol \cup means "or" or "union"

the symbol ' ' means "not"