Warm-Up Puzzle

Set Theory

- An examination in three subjects, Algebra, Biology, and Chemistry, was taken by 41 students. The following table shows how many students failed in each single subject and in their various combinations.

Subjects:	A	B	C	AB	AC	BC	ABC
Failed:	12	5	8	2	6	3	1

- How many students passed all three subjects?

- Hint: Represent A, B, and C as sets