20S-MATH61-2 Quiz 1

CHARLES ZHANG

TOTAL POINTS

10 / 10

QUESTION 1

1 Question 1 10 / 10

- 0 pts Correct
- **O pts** Next time, prove your claim: "there is no combination/values ..."
- **0 pts** Be a bit more explicit. E.g.: inductive step, base step, etc.
- 2 pts Incorrect/incomplete part (see note in image).
- 4 pts Incorrect. Partial credit awarded (see notes in picture)
 - 1 pts Almost got it (see note).
- √ 0 pts Correct, but see note.
 - 0 pts Please improve quality of submission.
- 6 pts Baseless claims and/or answer that makes no sense (see note).
- 1 Since inclusion-exclusion had not been discussed prior to you taking the quiz, it was expected for you to solve the problem using other set tools.

80 students
3 in Psych, CS, Calc
15 in Calc and CS
8 in Calc and Psych
24 in Psych and CS
42 in Calc
36 in Psych
40 in CS

40 rot in CS
44 rot in Psych
38 rot in Calc

| XUYUZ | = | X | + | Y | + | Z | - | X N Y | - | X N Z | - | Y N Z | + | X N Y | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N Z | - | X N

|XUYUZ| = 42+36+40-15-8-24+3 |XUYUZ| = 74 74 people took at least 1 of CS, Psych, or Calc 80-74=6

-. 6 people didn't take any of the 3 subjects

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