

### Question #36365, Algebra

in a survey of 50 members, 20 were taking math and 33 was taking english and 8 taking both. How many was taking neither of the subjects?

**Solution.** From 20 members that were taking math there are 8 members who were also taking English. It means that  $20 - 8 = 12$  members were taking only math.

By analogy the number of members taking English includes 8 members taking math. It follows that the number of members taking only English  $33 - 8 = 25$ .

Finally, the number of members that were taking neither of the subjects is

$$50 - (12 + 25 + 8) = 5.$$

**Answer.** 5 members that were taking neither of the subjects.