

Example 5

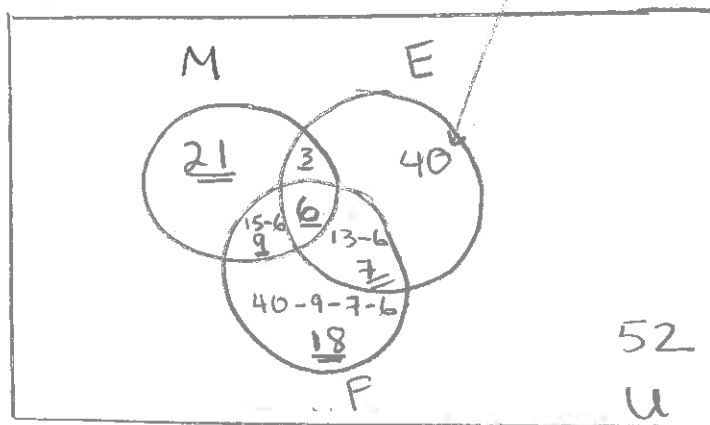
A group of 156 students were asked if they had selected any of these different courses: Math, English, and Family Studies.

The following statements show the results:

- 21 students had selected only Math
- 6 students had selected all 3 of Math, English, and Family studies
- 52 students had not selected any of the three courses
- 3 students had selected English and Math but not Family Studies
- 15 students had selected Family Studies and Math
- 13 students had selected English and Family Studies
- 40 Students had selected ^{ONLY} Family Studies

How many students had selected only English?

$$156 - 21 - 3 - 6 - 9 - 7 - 18 - 52 = 40$$



M = Math
E = English
F = Family Studies

TOTAL # of students taking Math, English, Family studies
 $= 156 - 52 = 104$

TOTAL Taking English: $104 - 21 - 3 - 6 - 9 - 7 - 18 = 40$