In a classroom, 51% of the students have Facebook accounts, 31% have Twitter accounts, 39% have Instagram accounts. 19% have both Instagram and Fackbook accounts, 9% have both Twitter and Instagram accounts, 6% have both Twitter and Facebook accounts, 15% **only** have Instagram accounts. 9% don’t have any accounts. And a student in the classroom is selected randomly, find the probability that he/she only has Twitter account.

Ans:

 By the problem, we can draw grpah below,

Instagram

9%

15%

Twitter

Facebook

(6-x)%

x%

(9-x)%

(19-x)%

Set x represent the percentage of students who have all accounts at the same time.

In Instagram circle,

 15% + (19-x)% + x% +(9-x)% =39%

* x = 4

In Twitter circle,

 31% -( 4% + 5% +2%) =20%(answer)