Answer on Question #82636 — Math — Statistics and Probability

Question

A group of eleven people can speak either English or French or both. Seven can speak English and six can speak French. What is the probability that a person chosen at random can speak both English and French.

Solution

Let A be people who can speak only English,

B be people who can speak only French,

C be people who can speak both English and French.

6 + 7 = A + B + 2*C = 13

A + B + C = 11

C = 2 people who speak both English and French.

P = 2/11 = 0.1818 is the probability that a person chosen at random can speak both English and French.

Answer: 0.1818.