Three ships A, B and C sail from England to India. If the ratio of their arriving safely are 2:5, 3:7 and 6:11 respectively then the probability of all the ships arriving safely is

## Solution:

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Probability of ship A for arriving safely = P(A) 2 / [2 + 5] = 2 / 7

Similarly, for B=P(B) = 3 / [3 + 7] = 3 / 10 and for C = P(C)= 6 / [6 + 11] = 6 / 17

Probability of all the ships for arriving safely = P(A) \* P(B) \* P(C)