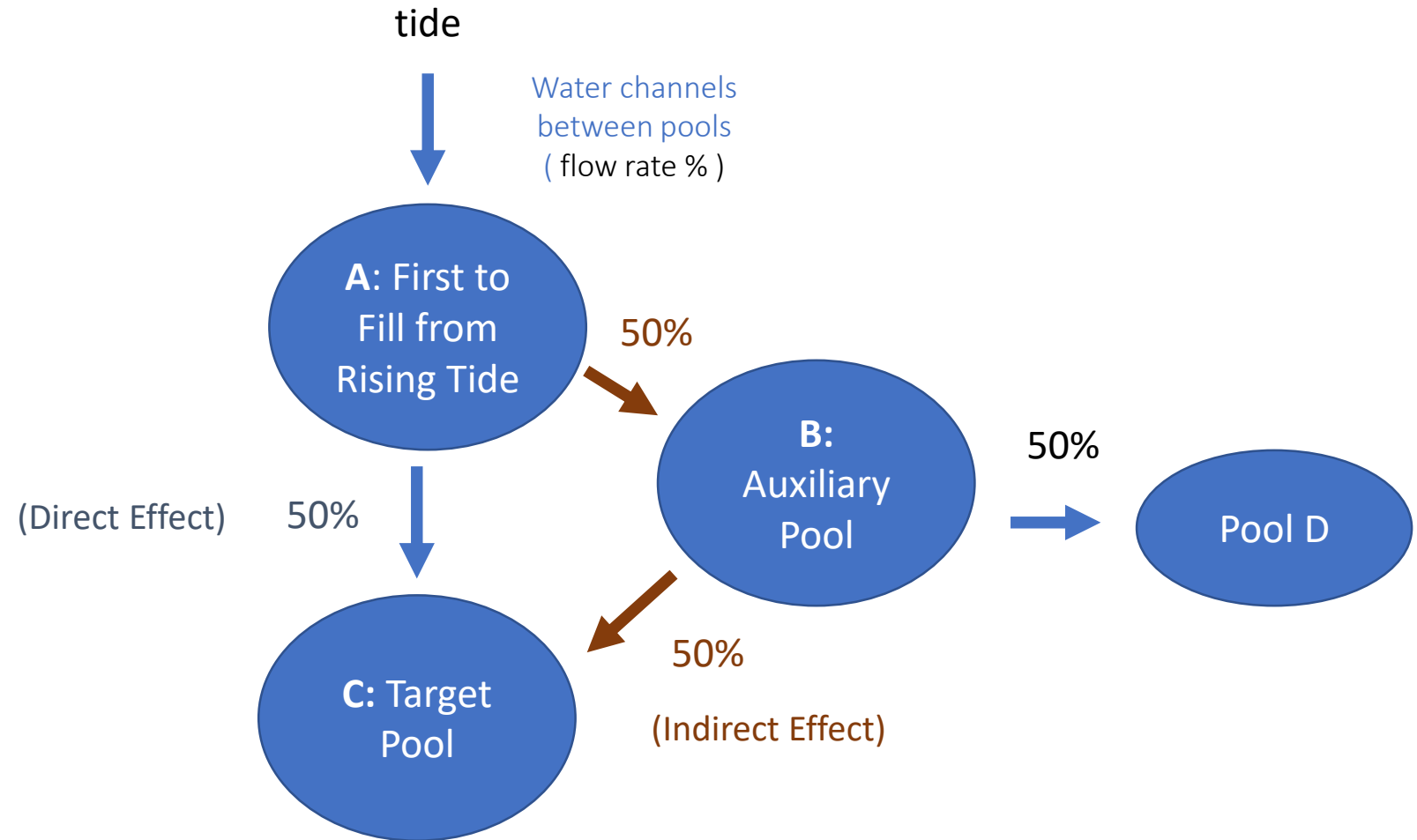


Ocean

Tide pool A and pool B are mostly full from the rising tide. A new wave washes 10 gallons of water into pool A, which then flows into B and C. How much water will pool C receive in total?



x = volume of water added to A

y = change in volume of C

y = amount directly from A + amount indirectly from A through C

$y = (0.50)(x) + (0.50)(0.50)(x) = 5 + 2.5 = 7.5$ gallon increase