

S-CP.7 Coffee at Mom's Diner

Task

At Mom's diner, everyone drinks coffee. Let C = the event that a randomly-selected customer puts cream in their coffee. Let S = the event that a randomly-selected customer puts sugar in their coffee. Suppose that after years of collecting data, Mom has estimated the following probabilities:

$$P(C) = 0.6$$

$$P(S) = 0.5$$

$$P(C \text{ or } S) = 0.7$$

Estimate $P(C \text{ and } S)$ and interpret this value in the context of the problem.



S-CP.7 Coffee at Mom's Diner

Typeset May 4, 2016 at 22:46:14. Licensed by Illustrative Mathematics under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License .