

Math 318 HW 2

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Question 1. Let x be the proportion of people who cheat.

$$\begin{aligned} P(YES) = 0.45 &= 0.5 \cdot P(YES|HEADS) + 0.5 \cdot P(YES|TAILS) = 0.5 \cdot (1 - x) \\ \implies x &= 0.1. \end{aligned}$$