

Act 7

$$\begin{aligned}P_{x_1}(x_1=2) &= \sum P(x_1=2, x_2=x_2) \\&= P(x_1=2, x_2=0) + P(x_1=2, x_2=1) \\&\quad + P(x_1=2, x_2=2) + P(x_1=2, x_2=3) \\&= .05 + .04 + .1 + .06 \\&= .25\end{aligned}$$

$$b. P(x_1=1, x_2=3) = .04$$

$$\begin{aligned}c. P(x_1 \geq 3, x_2 \geq 2) &= P(x_1=3, x_2=2) + \\&\quad P(x_1=3, x_2=3) + P(x_1=4, x_2=2) \\&\quad + P(x_1=4, x_2=3) \\&= .04 + .07 + .05 + .06 \\&= .22\end{aligned}$$