$$f_{y}(y) := \begin{cases} \frac{2-y}{3} & \text{for } y \in \{0,1,2\} \\ 0 & \text{sold} \end{cases}$$

$$f_{y}(1) = \frac{2-1}{3} = \frac{1}{3}$$

$$P(Y \ge 1) = \frac{2-1}{3} + \frac{2-2}{3} = \frac{1}{3}$$

$$E(y) = \sum_{k} k \cdot f_{y}(k) = 0.7 - 0 + 1.7 - 1 + 1.7 - 7 = \frac{1}{3}$$

$$E(y^2) = \frac{1}{3}$$

$$Var(Y) \Rightarrow \frac{3}{9} - \frac{1}{9} = \frac{2}{9}$$