Roll two 3-sided dice

$$\Pr(Y=1 \mid X=1) = \frac{1}{3}$$

$$\Pr(X,Y) = \Pr(X) \cdot \Pr(Y)$$

$$\Pr(Y \mid X) = \Pr(Y)$$
C: \{H, T\}

D: \{1, 2, 3\}

P(H, 1) = \frac{1}{6}
P(H, 2) = \frac{1}{6}
P(H, 3) = \frac{1}{6}
P(T, 1) = \frac{1}{3}
P(T, 2) = \frac{1}{3}
P(T, 3) = \frac{1}{3}

P(D=1 | C=T) = \frac{3}{5} = 0.6

P(D=1) = \frac{7}{15}