$$P(Sunny \mid Yes) = \frac{P(Sunny \cap Yes)}{P(Yes)} = \frac{3}{9} = \frac{1}{3}$$

$$P(Yes \mid Sunny) = P(\mathcal{k})$$

$$P(Sunny) = \frac{5}{14} \qquad\qquad P(Yes) = \frac{9}{14}$$

$$P(Yes \mid Sunny) = \frac{P(Sunny \mid Yes) \cdot P(Yes)}{P(Sunny)}$$

$$= \frac{\frac{1}{3} \cdot \frac{9}{14}}{\frac{5}{14}} = \frac{3}{5}$$