

2 Kings

$$\begin{aligned} 1. \quad P(E) &= 0.5 & P(F) &= 0.3 \\ P(E \text{ AND } F) &= P(E) \cdot P(F) \\ &= (0.5)(0.3) \\ &= \underline{0.15} \end{aligned}$$

$$\begin{aligned} 2. \quad P(\text{FIVE ON A DIE AND HEADS ON COIN}) \\ &= \frac{1}{6} \cdot \frac{1}{2} \\ &= \underline{\frac{1}{12}} \end{aligned}$$

$$\begin{aligned} 3. \quad P(4 \text{ PEOPLE DIE FROM CANCER}) \\ &= (0.23)(0.23)(0.23)(0.23) \\ &= (0.23)^4 \\ &= \underline{.0028} \end{aligned}$$

$$\begin{aligned} 4. \quad P(3 \text{ KINGS}) \\ &= \frac{4}{52} \cdot \frac{4}{52} \cdot \frac{4}{52} \\ &= 4.5517 \text{ E } -4 \\ &= .00045517 \\ &= \underline{.0005} \end{aligned}$$