$$P[G_{in}] = \frac{1}{2}$$

$$P[G_{in}] = \frac{1}{2}$$

$$P[G_{in}] = \frac{1}{2}$$

$$P[K] = \frac{1}{2} P[K \cap G_{i}] + \frac{1}{2} P[K \cap G_{i}]$$

$$= \frac{1}{2} P[K \cap G_{i}] + \frac{1}{2} P[K \cap G_{i}]$$

$$= \frac{1}{2} P[K \cap G_{i}] + \frac{1}{2} P[K \cap G_{i}]$$

$$= \frac{1}{2} P[K \cap G_{i}] + \frac{1}{2} P[K \cap G_{i}]$$

$$= \frac{1}{2} P[K \cap G_{i}] + \frac{1}{2} P[K \cap G_{i}]$$

$$= \frac{1}{2} P[K \cap G_{i}] + \frac{1}{2} P[K \cap G_{i}]$$

$$= \frac{1}{2} P[K \cap G_{i}] + \frac{1}{2} P[K \cap G_{i}]$$

$$= \frac{1}{2} P[K \cap G_{i}] + \frac{1}{2} P[K \cap G_{i}]$$

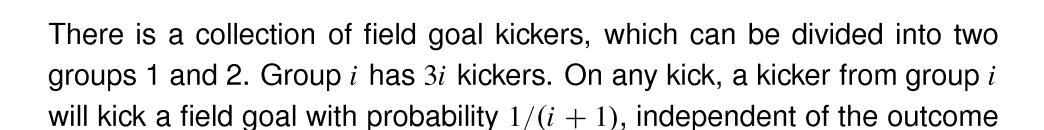
$$= \frac{1}{2} P[K \cap G_{i}] + \frac{1}{2} P[K \cap G_{i}]$$

$$= \frac{1}{2} P[K \cap G_{i}] + \frac{1}{2} P[K \cap G_{i}] + \frac{1}{2} P[K \cap G_{i}]$$

$$= \frac{1}{2} P[K \cap G_{i}] + \frac{1}{2} P[K \cap G_{i}] + \frac{1}{2} P[K \cap G_{i}]$$

$$= \frac{1}{2} P[K \cap G_{i}] + \frac{1$$

## **Problem 1.9.5**



(a) A kicker is selected at random from among all the kickers and attempts one field goal. Let K be the event that a field goal is kicked. Find P[K].

of any other kicks by that kicker or any other kicker.

- (b) Two kickers are selected at random. For j=1,2, let  $K_j$  be the event that kicker j kicks a field goal. Find  $P[K_1 \cap K_2]$ . Are  $K_1$  and  $K_2$  independent events?
- (c) A kicker is selected at random and attempts 10 field goals. Let M be the number of misses. Find P[M=5].

