Skills Practice

Adding Probabilities

Eli has 10 baseball cards of 10 different players in his pocket. Three players are pitchers, 5 are outfielders, and 2 are catchers. If Eli randomly selects a card to trade, find each probability.

1.
$$P(\text{pitcher or outfielder})$$
 2. $P(\text{pitcher or catcher})$ 3. $P(\text{outfielder or catcher})$ $\frac{3}{10} + \frac{5}{10} = \frac{8}{10} = \frac{4}{10}$ $\frac{3}{10} + \frac{2}{10} = \frac{5}{10} = \frac{1}{10}$

A die is rolled. Find each probability

4.
$$P(5 \text{ or } 6)$$
 $c = \frac{5}{6} \cdot P(\text{at least a } 3) + P(4) + P(5) +$

probability. 7. A die is rolled. What is the probability of rolling a 3 or a 4? $\frac{1}{6} + \frac{1}{6} = \frac{2}{6} = \left(\frac{1}{3}\right)$

8. A die is rolled. What is the probability of rolling an even number or a 4?

9. A card is drawn from a standard deck of cards. What is the probability of drawing a kir or a queen? $\frac{4}{52} + \frac{4}{52} = \frac{8}{52} = \boxed{\frac{2}{13}}$

10. A card is drawn from a standard deck of cards. What is the probability of drawing a jack or a heart?
$$\frac{4}{52} + \frac{13}{52} - \frac{1}{52} = \frac{14}{52}$$

11. The sophomore class is selling Mother's Day plants to raise money. Susan's prize for being the top seller of plants is a choice of a book, a CD, or a video. She can choose from 6 books, 3 CDs, and 5 videos. What is the probability that Susan selects a book or a CD?

