

**(1-3) Events A and B are disjoint. Find P(A or B).**

1)  $P(A) = 0.55, P(B) = 0.2$

2)  $P(A) = \frac{2}{5}, P(B) = \frac{3}{5}$

3)  $P(A) = \frac{2}{3}, P(B) = \frac{1}{5}$

**(4-6) Find the indicated probability.**

4)  $P(A) = 0.6, P(B) = 0.2$   
 $P(A \text{ or } B) = 0.7$   
 $P(A \text{ and } B) = \underline{\quad ? \quad}$

5)  $P(A) = 0.46, P(B) = 0.37$   
 $P(A \text{ and } B) = 0.31$   
 $P(A \text{ or } B) = \underline{\quad ? \quad}$

6)  $P(A) = \frac{6}{11}, P(B) = \frac{3}{11}$   
 $P(A \text{ or } B) = \frac{7}{11}$   
 $P(A \text{ and } B) = \underline{\quad ? \quad}$

**(7-8) Find  $P(\bar{A})$ .**

7)  $P(A) = 0.5$

8)  $P(A) = \frac{1}{3}$

**(9-14) A card is randomly selected from a standard deck. Find the probability of drawing a given card.**

9) A king *and* a diamond

10) A spade *or* a club

11) A 6 *and* a face card

12) A king *or* a diamond

13) A 5 *or* a heart

14) A 5 *and* a heart

**(15-18) Two six-sided dice are rolled. Find the probability of the given event. (use the picture in your notes)**

15) The sum is 3 or 4.

16) The sum is not 7.

17) The sum is greater than or equal to 5.

18) The sum is less than 8 or greater than 11.

19) You and your best friend are among several candidates running for class president. You estimate that there is a 45% chance you win and a 25% chance your best friend will win. What is the probability that either you or your best friend win the election?

20) The organizer of a cast party for a drama club asks each of 6 cast members to bring one food item from a list of 10 items. What is the probability that at least 2 of the 6 cast members bring the same item?