

Student Practice Problems:

Find $P(A')$.

1. $P(A) = 0.25$
2. $P(A) = 2/3$
3. $P(A) = 0.64$
4. $P(A) = 0$

Two six-sided dice are rolled. Find the probability of the given event.

5. The sum is even or odd
6. The sum is 3 or 12
7. The sum is greater than 8
8. The sum is greater than 8 and prime
9. The sum is 10 or a multiple of 3

Student Practice Problems:

A card is randomly drawn from a standard 52-card deck. Find the probability of the given event.

10. an ace or a club
11. a face card and a diamond
12. not an ace
13. less than or equal to four (an ace is one)
14. less than 10 (an ace is one)
15. not a face card
16. not a diamond or a five

Student Practice Problems:

17. Of the 148 students honored at an academic banquet, 40 won awards for mathematics and 82 for English. 12 of these students won awards for both mathematics and English. One of the 148 students is chosen at random to be interviewed for a newspaper article.

- a. What is the probability that the student won an award in mathematics?
- b. What is the probability that the student won an award in mathematics or English?

Student Practice Problems:

18. The probability that it will snow today is 40%, and the probability that it will snow tomorrow is 20%. The probability that it will snow both days is 10%. What is the probability that it will snow today or tomorrow?

19. The probability that it will rain today is 0.30, and the probability that it will rain tomorrow is 0.50. The probability that it will rain both days is 0.20. What is the probability that it will rain today or tomorrow?