

**Practice****Integration: Probability**  
**Probability and Odds**

*Find the probability of each outcome if a die is rolled.*

1. a 1
2. a number less than 3
3. an odd number
4. a number greater than 6
5. an even number less than 6
6. a number greater than 0

*Find the odds of each outcome if a die is rolled.*

7. a multiple of 2
8. a number less than 2
9. a factor of 6
10. a 5
11. not a 1
12. a number greater than 5

*A card is selected at random from a standard deck of 52 cards.*

13. What is the probability of selecting a red card?
14. What is the probability of selecting an ace?
15. What are the odds of selecting a diamond?
16. What are the odds of not selecting a black 2?

*The number of male and female doctors in Camron are listed by age in the table at the right. Use this data to answer the following questions.*

17. What is the probability that a doctor chosen is in the 45–54 age group?
18. What is the probability that a doctor chosen is a female?
19. What are the odds that a doctor chosen is a female under 35 years?
20. What are the odds that a doctor chosen is a male between the ages of 35 and 54 years?

Camron Doctors		
Age	Male	Female
Under 35	29	18
35–44	36	8
45–54	19	3
55–64	17	2