the probability that you will draw a green or a red marble is \( \frac{5}{15} = \frac{5}{16} \). We can also solve this problem by thinking in terms of probability by complement. We know that the marble we draw must be blue, red, green, or yellow. In other words, there is a probability of 1 that we will draw a blue, red, green, or yellow marble.

**Solution to Problem 1.6**

We first determine the probabilities of the six possible outcomes. Let \( a = p \), \( p = 3 \), \( p = 5 \) and \( b = p \), \( p = 4 \), \( p = 6 \). We are given that \( b = 2a \) by the additivity and normalization axioms. \( 1 \), \( 3 \), \( 6 \), \( 3 \), \( 6 \) and \( 1 \), \( 2 \), \( 3 \), \( 4 \), \( 9 \). Solution to Problem 1.7

a. A die is rolled. Find the probability that the number obtained is greater than 4.

b. Two coins are tossed. Find the probability that one head only is obtained.

c. Two dice are rolled. Find the probability that the sum is equal to 5.

d. A card is drawn at random from a deck of cards. Find the probability of getting the king of hearts.

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sol probability of the problem getting solved $1$ probability of none of them solving the problem probability of problem getting solved $1.5 \times 7 \times 3.7 \times 5.9 \times 122.147$ example 9 find the probability of getting two heads when five coins are tossed sol number of ways of getting two heads $5 \choose 2 = 10$

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