MORE ON PROBABILITY

Find the probability that each of the following events will occur.

There are 10 numbered poker chips, each with a different digit on it: 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9. A chip is chosen at random and then replaced.

1. What is the probability that if you picked out a numbered chip two times, you would get the number 3 both times?

2. What is the probability that if you picked out a numbered chip three times, you would get a chip with 6, and 8, and then 2?

3. What is the probability that if you picked put a chip five times, you would get an odd number each time?

4. What is the probability that if you picked out a chip 3 times, you would always get a prime number?

There are 26 lettered cards, each with a different letter on it. A card is chosen at random but not replaced in the stack of cards.

5. What is the probability that when you pick four cards, one at a time, that you would first draw an "m", then an "a", then a "t", and then a "h"?

6. What is the probability that you draw 5 cards and get a vowel each time?

7. What is the probability that you draw two cards and get a letter that is in the word "math" both times?

Solve.

8. If you flipped a coin twice, what is the probability you would get tails each time?

9. If you flipped a coin three times, what is the probability you get a heads, then tails, and then a heads?

10. If you flipped a coin three times, what is the probability you get at least two heads?

11. If you roll a die three times, what is the probability you will get three or six each time?

12. If you roll a die twice, what is the probability you will get a number less than 5 each time?