13-6

Practice

The Binomial Theorem and Probability

Find each probability if six coins are tossed.

1. P(3 heads and 3 tails)

2. P(at least 4 heads)

3. P(2 heads or 3 tails)

4. P(all heads or all tails)

The probability of Chris's making a free throw is $\frac{2}{3}$. Find each probability if she shoots five times.

5. P(all missed)

6. P(all made)

7. P(exactly 4 made)

8. P(at least 3 made)

When Maria and Len play a certain board game, the probability that Maria will win the game is $\frac{3}{4}$. Find each probability if they play five games.

9. P(Len wins only 1 game)

10. P(Maria wins exactly 2 games)

11. P(Len wins at least 2 games)

12. P(Maria wins at least 3 games)

13. ***Gardening*** Assume that 60% of marigold seeds that are sown directly in the ground produce plants. If Tomaso plants 10 seeds, what is the probability that 7 plants will be produced?