11-2A Practice

Form G

Probability

1. A basketball player attempted 24 shots and made 13. Find the experimental probability that the player will make the next shot she attempts.

2. A baseball player attempted to steal a base 70 times and was successful 47 times. Find the experimental probability that the player will be successful on his next attempt to steal a base.

Graphing Calculator For Exercises 3–4, define a simulation by telling how you represent correct answers, incorrect answers, and the quiz. Use your simulation to find each experimental probability.

3. If you guess the answers at random, what is the probability of getting at least three correct answers on a four-question true-or-false quiz?

4. A five-question multiple-choice quiz has four choices for each answer. If you guess the answers at random, what is the probability of getting at least four correct answers?

A group of five cards are numbered 1–5. You choose one card at random. Find each theoretical probability.

5. P(card is a 2)

6. P(even number)

7. P(prime number)

8. P(less than 5)

A bucket contains 15 blue pens, 35 black pens, and 40 red pens. You pick one pen at random. Find each theoretical probability.

9. P(black pen)

10. P(blue pen or red pen)

11. P(not a blue pen)

12. P(black pen or not a red pen)