Lesson 10.4 Practice: Probability with Counting

School Launch · Algebra II · Unit 10: Counting, Probability and the Binomial Theorem · Worksheet A

Calculator for decimals

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. A bag holds 7 red and 5 blue marbles. 2 are drawn without replacement. What is the probability all are red?

EASY

2. A bag holds 6 red and 5 blue marbles. 2 are drawn without replacement. What is the probability all are red?

EASY

3. A bag holds 4 red and 4 blue marbles. 2 are drawn without replacement. What is the probability all are red?

EASY

4. A bag holds 7 red and 3 blue marbles. 3 are drawn without replacement. What is the probability all are red?

MEDIUM

5. A bag holds 4 red and 8 blue marbles. 3 are drawn without replacement. What is the probability all are red?

MEDIUM

6. A bag holds 8 red and 7 blue marbles. 3 are drawn without replacement. What is the probability all are red?

MEDIUM

7. A bag holds 3 red and 7 blue marbles. 2 are drawn without replacement. What is the probability all are red?

MEDIUM

8. A bag holds 9 red and 8 blue marbles. 3 are drawn without replacement. What is the probability all are red?

HARD

9. A bag holds 4 red and 6 blue marbles. 3 are drawn without replacement. What is the probability all are red?

HARD

10. A bag holds 6 red and 3 blue marbles. 3 are drawn without replacement. What is the probability all are red?

HARD