
NAME _____

Module 20 Solving Problems Using Probability,
Statistics, and Discrete Math
Lesson 3 Solving Advanced Probability Problems



guided
practice

Set 1

1. What is the probability of drawing, *with* replacement, a red marble and then a blue marble from a bag that has three red marbles and five blue marbles?

$\frac{15}{64}$

2. What is the probability of drawing, *without* replacement, a red marble and then a blue marble from a bag that has three red marbles and five blue marbles?

$\frac{15}{56}$

3. What is the probability of randomly selecting, *with* replacement, an “a” and then an “n” from the letters of the word “banana”?

$\frac{1}{6}$

4. What is the probability of randomly selecting, *without* replacement, an “a” and then an “n” from the letters of the word “banana”?

$\frac{1}{5}$

5. What is the probability of the next two blood donors having type A blood if forty percent of the population has type A blood?

$\frac{4}{25}$
