Name: _____ Date: _____

Fresh Math

Multiplication Rule: Dependent Events - Medium

The items are not replaced. Use P(A and B) = P(A) · P(B given A).

1. A bowl has 3 purple and 9 orange tiles. Two are drawn without replacement. P(purple first, then orange)

2. A drawer has 4 red and 5 blue socks. Two are drawn without replacement. P(red first, then blue)

3. A drawer has 3 red and 2 blue socks. Two are drawn without replacement. P(blue first, then red)

4. A bowl has 9 green and 8 yellow tiles. Two are drawn without replacement. P(yellow first, then green)

5. A bowl has 8 black and 4 white tiles. Two are drawn without replacement. P(black first, then white)

6. A drawer has 6 green and 4 yellow socks. Two are drawn without replacement. P(green first, then yellow)

Name: _____ Date: _____

Fresh Math

Multiplication Rule: Dependent Events - Medium

The items are not replaced. Use P(A and B) = P(A) · P(B given A).

7. A jar has 6 green and 3 yellow candies. Two are drawn without replacement. P(green first, then yellow)

8. A bag has 9 black and 7 white marbles. Two are drawn without replacement. P(black first, then white)

9. A bag has 6 purple and 4 orange marbles. Two are drawn without replacement. P(orange first, then purple)

10. A jar has 3 purple and 4 orange candies. Two are drawn without replacement. P(purple first, then orange)

11. A drawer has 7 purple and 3 orange socks. Two are drawn without replacement. P(purple first, then orange)

12. A jar has 5 purple and 3 orange candies. Two are drawn without replacement. P(orange first, then purple)

Name: _____ Date: _____

Multiplication Rule: Dependent Events - Medium

The items are not replaced. Use P(A and B) = P(A) · P(B given A).

13. A box has 2 black and 5 white pens. Two are drawn without replacement. P(black first, then white)

14. A bag has 8 red and 8 blue marbles. Two are drawn without replacement. P(blue first, then red)

15. A jar has 8 purple and 4 orange candies. Two are drawn without replacement. P(orange first, then purple)

16. A drawer has 9 purple and 5 orange socks. Two are drawn without replacement. P(purple first, then orange)

Multiplication Rule: Dependent Events - Medium - Answer Key

1. A bowl has 3 purple and 9 orange tiles. Two are drawn without replacement. P(purple first, then orange)

   9/44

2. A drawer has 4 red and 5 blue socks. Two are drawn without replacement. P(red first, then blue)

   5/18

3. A drawer has 3 red and 2 blue socks. Two are drawn without replacement. P(blue first, then red)

   3/10

4. A bowl has 9 green and 8 yellow tiles. Two are drawn without replacement. P(yellow first, then green)

   9/34

5. A bowl has 8 black and 4 white tiles. Two are drawn without replacement. P(black first, then white)

   8/33

6. A drawer has 6 green and 4 yellow socks. Two are drawn without replacement. P(green first, then yellow)

   4/15

Multiplication Rule: Dependent Events - Medium - Answer Key

7. A jar has 6 green and 3 yellow candies. Two are drawn without replacement. P(green first, then yellow)

   1/4

8. A bag has 9 black and 7 white marbles. Two are drawn without replacement. P(black first, then white)

   21/80

9. A bag has 6 purple and 4 orange marbles. Two are drawn without replacement. P(orange first, then purple)

   4/15

10. A jar has 3 purple and 4 orange candies. Two are drawn without replacement. P(purple first, then orange)

    2/7

11. A drawer has 7 purple and 3 orange socks. Two are drawn without replacement. P(purple first, then orange)

    7/30

12. A jar has 5 purple and 3 orange candies. Two are drawn without replacement. P(orange first, then purple)

    15/56

Multiplication Rule: Dependent Events - Medium - Answer Key

13. A box has 2 black and 5 white pens. Two are drawn without replacement. P(black first, then white)

    5/21

14. A bag has 8 red and 8 blue marbles. Two are drawn without replacement. P(blue first, then red)

    4/15

15. A jar has 8 purple and 4 orange candies. Two are drawn without replacement. P(orange first, then purple)

    8/33

16. A drawer has 9 purple and 5 orange socks. Two are drawn without replacement. P(purple first, then orange)

    45/182