

Name \_\_\_\_\_

Date \_\_\_\_\_

### Prime Factorization Practice

Difficulty Level: ★★☆☆☆

Directions: Find the prime factors for the numbers below. You may need a piece of scratch paper to complete these problems.

1

A factor tree for the number 27. The number 27 is in a rounded rectangle at the top. Two lines branch down from it to a circle on the left and a rounded rectangle in the middle. From the middle rounded rectangle, two lines branch down to two circles. Below the diagram is the equation:  $\_ \times \_ \times \_ = 27$

2

A factor tree for the number 20. The number 20 is in a rounded rectangle at the top. Two lines branch down from it to a circle on the left and a rounded rectangle in the middle. From the middle rounded rectangle, two lines branch down to two circles. Below the diagram is the equation:  $\_ \times \_ \times \_ = 20$

3

A factor tree for the number 63. The number 63 is in a rounded rectangle at the top. Two lines branch down from it to a circle on the left and a rounded rectangle in the middle. From the middle rounded rectangle, two lines branch down to two circles. Below the diagram is the equation:  $\_ \times \_ \times \_ = 63$

4

A factor tree for the number 325. The number 325 is in a rounded rectangle at the top. Two lines branch down from it to a circle on the left and a rounded rectangle in the middle. From the middle rounded rectangle, two lines branch down to two circles. Below the diagram is the equation:  $\_ \times \_ \times \_ = 325$

5

A factor tree for the number 52. The number 52 is in a rounded rectangle at the top. Two lines branch down from it to a circle on the left and a rounded rectangle in the middle. From the middle rounded rectangle, two lines branch down to two circles. Below the diagram is the equation:  $\_ \times \_ \times \_ = 52$

6

A factor tree for the number 68. The number 68 is in a rounded rectangle at the top. Two lines branch down from it to a circle on the left and a rounded rectangle in the middle. From the middle rounded rectangle, two lines branch down to two circles. Below the diagram is the equation:  $\_ \times \_ \times \_ = 68$

7

A factor tree for the number 45. The number 45 is in a rounded rectangle at the top. Two lines branch down from it to a circle on the left and a rounded rectangle in the middle. From the middle rounded rectangle, two lines branch down to two circles. Below the diagram is the equation:  $\_ \times \_ \times \_ = 45$

8

A factor tree for the number 92. The number 92 is in a rounded rectangle at the top. Two lines branch down from it to a circle on the left and a rounded rectangle in the middle. From the middle rounded rectangle, two lines branch down to two circles. Below the diagram is the equation:  $\_ \times \_ \times \_ = 92$

9

A factor tree for the number 114. The number 114 is in a rounded rectangle at the top. Two lines branch down from it to a circle on the left and a rounded rectangle in the middle. From the middle rounded rectangle, two lines branch down to two circles. Below the diagram is the equation:  $\_ \times \_ \times \_ = 114$