

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 prime factorization tree for the number 81. The root node is a rounded rectangle containing the number 81. It branches into two circles. The right circle branches into two rounded rectangles. The right rounded rectangle branches into two circles. The left circle branches into two rounded rectangles. The right rounded rectangle branches into two circles. Below the tree is the equation: $_ \times _ \times _ \times _ = 81$

2

A prime factorization tree for the number 60. The root node is a rounded rectangle containing the number 60. It branches into two circles. The right circle branches into two rounded rectangles. The right rounded rectangle branches into two circles. The left circle branches into two rounded rectangles. The right rounded rectangle branches into two circles. Below the tree is the equation: $_ \times _ \times _ \times _ = 60$

3

A prime factorization tree for the number 24. The root node is a rounded rectangle containing the number 24. It branches into two circles. The right circle branches into two rounded rectangles. The right rounded rectangle branches into two circles. The left circle branches into two rounded rectangles. The right rounded rectangle branches into two circles. Below the tree is the equation: $_ \times _ \times _ \times _ = 24$

4

A prime factorization tree for the number 126. The root node is a rounded rectangle containing the number 126. It branches into two circles. The right circle branches into two rounded rectangles. The right rounded rectangle branches into two circles. The left circle branches into two rounded rectangles. The right rounded rectangle branches into two circles. Below the tree is the equation: $_ \times _ \times _ \times _ = 126$

5

A prime factorization tree for the number 375. The root node is a rounded rectangle containing the number 375. It branches into two circles. The right circle branches into two rounded rectangles. The right rounded rectangle branches into two circles. The left circle branches into two rounded rectangles. The right rounded rectangle branches into two circles. Below the tree is the equation: $_ \times _ \times _ \times _ = 375$

6

A prime factorization tree for the number 104. The root node is a rounded rectangle containing the number 104. It branches into two circles. The right circle branches into two rounded rectangles. The right rounded rectangle branches into two circles. The left circle branches into two rounded rectangles. The right rounded rectangle branches into two circles. Below the tree is the equation: $_ \times _ \times _ \times _ = 104$