Name _____ Date _____

Part 3 Factor Trees and Exponents

Write each of the following numbers as a product of prime numbers. If you need more room to show your work, use a separate sheet of paper.

1. 52 **2.** 85 **3.** 224

4. Write each of the following using exponents. Then, find each product.

A. $4 \times 4 \times 2$ **B.** $5 \times 2 \times 5$ **C.** $2 \times 3 \times 2 \times 2$

Part 4 What's Missing?

The letter *n* stands for a missing number. What number must *n* be in each number sentence to make the sentence true?

A. $750 + 150 = n$ **B.** $839 + 102 = n$ **C.** $1034 - 40 = n$

D. $2 + n = 100$ **E.** $16 - n = 8$ **F.** $n + 21 = 42$

G. $n - 25 = 50$ **H.** $11 + n = 24$ **I.** $93 - n = 23$

J. $70 - n = 40$ **K.** $71 - n = 40$ **L.** $15 - n = 9$

M. Show or tell your strategy for solving Question G.