Unit Assignment: Unit 2  
Understanding Number

Part A

Master 2.23a

1. Write each number in standard form.

a) 60 000 000 + 7 000 000 + 400 000 + 3000 + 20 + 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) 3 billion 48 million 7 thousand 124 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Write each number in expanded form.

a) 23 086 021

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) 4 326 180 501

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Use these numbers: 83, 77, 47, 56, 81, 126, 63, 108, 29  
Which numbers are:

a) multiples of 7? b) multiples of 9?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) prime numbers? d) composite numbers?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Find the first 3 common multiples of each set of numbers.

a) 4, 5, and 10 b) 3, 6, and 8 c) 2, 6, and 9

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_

Unit Assignment continued

5. List all the factors of each number. Circle the factors that are prime numbers.

Master 2.23b

a) 24 b) 64

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) 40 d) 78

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Draw a factor tree for each number.  
a) 30 b) 84 c) 48

7. Evaluate each expression.  
a) 48 ÷ (17 – 9) b) 26 + 2 × 3 c) 50 × (6 ÷ 3)

\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

8. Use a calculator to evaluate each expression.  
a) (526 – 302) ÷ 28 b) 385 × 48 ÷ 12 c) 726 × 142 ÷ (16 ÷ 4)

\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

9. Look at these integers.  
+1, –8, +9, –2, +8, –4, –1, +3, –7, +6, 0

List the integers that are:

a) less than 0 b) between –5 and +5

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. Order these integers from least to greatest.

+15, +3, –18, –7, 0, –12, +7

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit Assignment: continued

Part B

Master 2.23c

11. The warehouse workers packed 475 boxes of dictionaries.   
Each box held 24 dictionaries. They also packed 589 boxes of spelling books.   
Each box held 36 books. How many books did the workers pack altogether?

12. Each bus holds 56 people.  
How many buses are needed to take 427 students, 17 teachers, and   
53 parent volunteers to the track-and-field meet? Show your work.

**13.** Enrique’s crew planted 258 rows of tomatoes. Each row had 175 plants.   
How many tomatoes did Enrique’s crew plant?

Part C

14. You may use a calculator.  
The product of a 2-digit number and a 4-digit number is about 500 000.  
What might the 2 numbers be? Give as many answers as you can.