

6 – NSN – PRE TEST (6 QUESTIONS). LEVEL: _____

FIRST NAME, LAST NAME:	CLASS:
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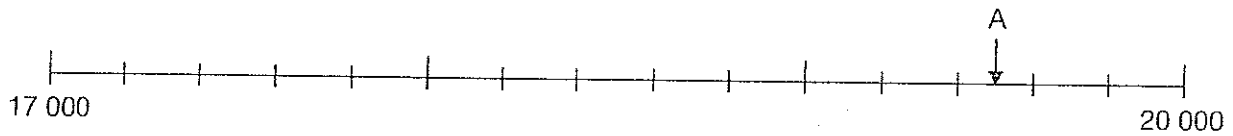
1. a) Label the number line below to show the location of each number. The first one has been done for you.

A 19 500

B 18 300

C 18 000

D 17 250



b) Which number is the greatest?

A 19 500 B 18 300 C 18 000 D 17 250

2. The number 243 can be written in expanded form as $200 + 40 + 3$.

a) Write the number 34 097 in expanded form.

3. There are 6504 people in Maya's town. Write 6504 in words.

13. a) Without calculating an exact answer, **estimate** 68×18 .
Show your thinking.

- b) **Calculate** 49×27 . Show your work.

14. a) Without calculating an exact answer, **estimate** $536 \div 4$.
Show your thinking.

- b) **Calculate** $712 \div 8$. Show your work.

9. A carton of pencils holds 400 packages of pencils.
Each package has 10 pencils. How many cartons would
you need to hold 100 000 pencils? Explain how you know.

6 – NSN – BENCHMARK TEST #1 (4 QUESTIONS). LEVEL:

FIRST NAME, LAST NAME:

CLASS:

1. Compare the numbers using $>$ or $<$.

a) 3 872 423 7 001 326 b) 85 467 125 736

c) 29 614 327 31 672 358 d) 4 673 426 004 396 612 808

2. Order these numbers from least to greatest:

1 004 672, 1 365 491, 955 672

3. Order these numbers from greatest to least:

258 064 371, 258 153 427, 1 285 684 373

Complete the chart.

Standard Form	Expanded Form	Number-Word Form
3 267 417		
	4 000 000 + 600 000 + 4000 + 90 + 2	
		625 million 227 thousand 282

6 – NSN – BENCHMARK TEST #2 (2 QUESTIONS). LEVEL: _____

FIRST NAME, LAST NAME:	CLASS:
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Use the table to sort the numbers from 1 to 30.

	Odd	Even
Prime		
Composite		

Consider how 30 is written below as the product of prime numbers.

$$30 = 2 \times 3 \times 5$$

Write 168 as the product of prime numbers.

Show your work:

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6 – NSN – BENCHMARK TEST #3 (2 QUESTIONS). LEVEL: _____

FIRST NAME, LAST NAME:

CLASS:

- 5** Four students in Ms. Haswell’s class simplify the expression below.

$$6 + 21 \div 7 - 4 \times 2 + 5$$

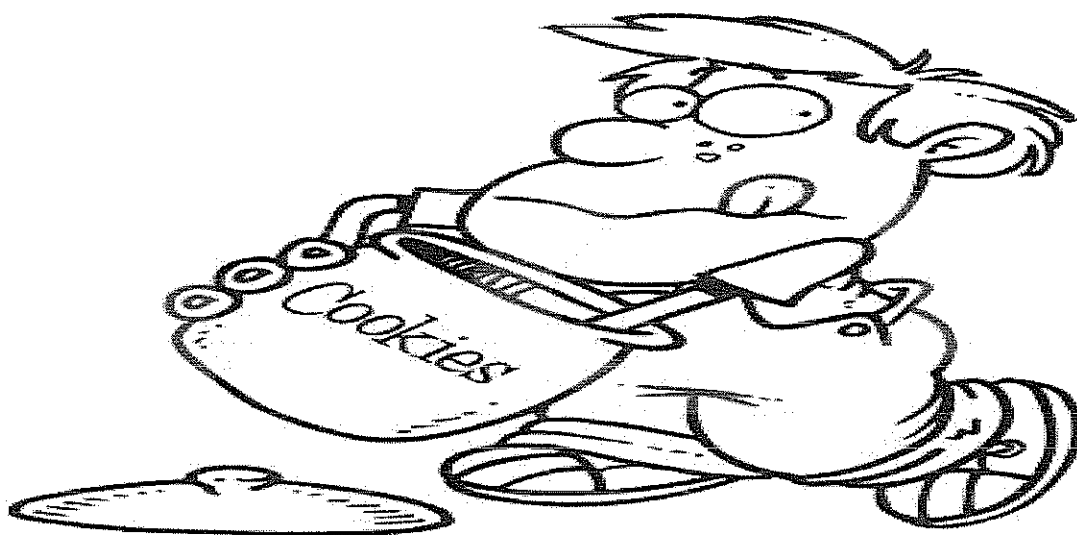
The first step of each of the four students is shown in the table below.

Simplifying the Expression

Student	First Step
Zoe	$6 + 21$
Liam	$7 - 4$
Dennis	$21 \div 7$
Deborah	$2 + 5$

Which student performs a first step that is correct?

Justify your response:



Mr. Uscatu needs 375g of chocolate chips for one batch of cookies. He has two 2000g bags of chocolate chips. Does Mr. Uscatu have enough chocolate chips to make 12 batches of cookies?

Explain:

6 – NSN – POST TEST (13 QUESTIONS). LEVEL: _____

FIRST NAME, LAST NAME: _____

CLASS: _____

Master 2.23a

Unit Test: Unit 2 Whole Numbers

Part A

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. Write 5 non-consecutive numbers between 6 731 285 and 6 759 000.
Arrange the numbers in order from greatest to least.

4. 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?

5. Solve each expression.

a) $48 \div (17 - 9)$

b) $26 + 2 \times 3$

c) $50 \times (6 \div 3)$

6. Add or subtract.

$$\begin{array}{r} \text{a)} \quad 326 \\ \quad 148 \\ \quad 937 \\ + \quad 614 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b)} \quad 352 \\ \quad 631 \\ \quad 104 \\ + \quad 629 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c)} \quad 3527 \\ - 1894 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d)} \quad 78027 \\ - 3998 \\ \hline \end{array}$$

7. Multiply.

$$\begin{array}{r} \text{a)} \quad 679 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b)} \quad 507 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c)} \quad 863 \\ \times 49 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d)} \quad 736 \\ \times 52 \\ \hline \end{array}$$

8. Use the inverse operation to check each product in question 7.
Show your work.

a)

b)

c)

d)

9. Divide.

$$\text{a)} \quad 17 \overline{)3684}$$

$$\text{b)} \quad 35 \overline{)6809}$$

$$\text{c)} \quad 72 \overline{)9792}$$

Part B

10. Without multiplying, tell whether 25×385 is greater than or less than 10 000. Explain how you know.

11. 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.

12. Write a problem involving division of a 4-digit number by a 2-digit number in which the remainder would be ignored. Solve your problem.

Part C

13. You may use a calculator. The product of a 2-digit number and a 3-digit number is about 50 000. What might the 2 numbers be? Give as many answers as you can.
