

**GRADE 10 ESSENTIAL  
UNIT X – PRIOR STUDIES  
WHOLE NUMBER OPERATIONS**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Manually (ie: by hand; pencil and paper) calculate all of the arithmetic operations below.

Use numbers. Show all work (steps of the algorithm, carries, renaming..)

Rounding and estimating first is a good way to see if you are likely doing it correctly and close.

Check your answer with a calculator and redo if necessary

1. Add (find the indicated *sum*):

a. 
$$\begin{array}{r} 312 \\ +436 \\ \hline \end{array}$$

b. 
$$\begin{array}{r} 576 \\ +436 \\ \hline \end{array}$$

c. 
$$\begin{array}{r} 47.2 \\ +68.2 \\ \hline \end{array}$$

d.  $1,837 + 2,188$

e.  $12,199 + 7,842$

e. Calculate the sum of 59 and 16 and 88.

2. Subtract: (find the '*difference*') (don't forget to check by adding up!)

a. 
$$\begin{array}{r} 467 \\ -236 \\ \hline \end{array}$$

b. 
$$\begin{array}{r} 532 \\ -216 \\ \hline \end{array}$$

c. 
$$\begin{array}{r} 800 \\ -356 \\ \hline \end{array}$$

d.  $388 - 245$

e.  $1,345 - 857$

f. Calculate the difference of 230 and 123.

[ Ever notice how cashiers make change? (Manually) ]

g. What is your change from a \$10.00 bill if you buy a \$3.47 scribbler?

3. Calculate the product as indicated.

a.  $52 \times 15$

b.  $68 * 7$

c.  $438 \bullet 46$

d. 
$$\begin{array}{r} 467 \\ \times 36 \\ \hline \end{array}$$

e. 
$$\begin{array}{r} 99 \\ \times 52 \\ \hline \end{array}$$

f. Carla has 18 boxes of smarties, each box has 43 smarties in it. How many smarties are there altogether (ie: total)?

4. Find the quotient as indicated: (the result of a dividing is called the quotient) (Don't forget to check by multiplying)

a.  $3 \overline{)162}$

b.  $18 \overline{)594}$

c.  $952 \div 17 =$

d.  $7218 / 18$

5. **Problem Solving.** The sum of two numbers is 33, their difference is three. What are the two numbers?

Keep practicing in your workbook!