

## 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*):

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

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



f. Calculate the difference of 230 and 123.



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

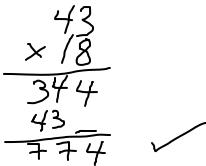
g. What is your change from a \$10.00 bill if you buy a \$3.47 scribbler?

+ 150 makes 3.50 + 150 makes 14 + 16 makes 10

3. Calculate the product as indicated.



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)

b.

a. 
$$\frac{54}{162}$$
 $\frac{-150}{12}$ 

c. 
$$952 \div 17 = 56$$

$$17) 952$$

$$-851$$

$$-102$$

$$-102$$

$$56R0$$



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

Guess & check.  

$$30 + 13 = 33$$
  $30 - 13 = 7$   
 $35 + 8 = 33$   $35 - 8 = 17$   
 $30 + 3 = 33$   $30 - 3 = 27$   
 $30 + 3 = 33$   $30 - 3 = 27$   
 $30 + 15 = 33$   $18 - 15 = 3$ 

Keep practicing in your workbook!