Name_____ **Instructor**_____

Date_____

SHOW YOUR WORK!

The skills needed to complete this worksheet are required for our work in Chapter 3. Please seek help as soon as possible if you have difficulty completing any of these sections.

Learning Objectives

A. Perform operations on whole numbers and integers.
B. Use the distributive property to rewrite expressions.
C. Use the order of operations.
D. Translate phrases into variable expressions.

OBJECTIVE A: Perform operations on whole numbers and integers.

1. Add.

   a) 2,398 + 12,943

   b) −63 + (−29)

   c) −89 + 37

   d) Find the sum of −15 and 8.

2. Subtract.

   a) −13 − 28

   b) 1953 − 844

   c) −8 − (−20)

   d) Subtract −17 from −32.

3. Add or subtract.

   a) 9 − 12 − (−3) − 3

   b) 12 + (−16) + 9 + (−7)

   c) 3620 + 4895 − 5036

   d) −8 + (−2) − 3 + (−6)

4. Multiply.

   a) −10(0)(−7)(6)

   b) Find the product of −8 and −6.

   c) 8(−1)(−2)(−5)

   d) 501 · 283

5. Divide.

   a) Find the quotient of −128 and 16.

   b) −198 ÷ (−33)

   c) 3198 ÷ 15

   d) $48\overline{)2984}$

SHOW YOUR WORK!

OBJECTIVE B: Use the distributive property to rewrite each expression.

6. $3(5 + 8)$

7. $5(6 - 4)$

8. $-2\,(3 + 6)$

9. $-4\,(8 - 3)$

OBJECTIVE C: Use the order of operations.

10. Simplify.

a) $8 \div 2 + 4^2 - 10$

b) $(-4)\,(10)^2 - (-3)(-7)$

c) $\dfrac{2(8-4)+2}{3^2-4}$

d) $-3\,(4-7)^2 - 5(5-8)^3$

OBJECTIVE D: Translate each phrase into a variable expression. Use *x* to represent the unknown number.

11. The sum of a number and 11

12. Five less than 4 times a number

13. The difference of 62 and a number

14. The product of -9 and a number

15. Three more than 6 times a number

16. 7 subtracted from twice a number