

Name _____

Instructor _____

Date _____

SHOW YOUR WORK!

The skills needed to complete this worksheet are required for our work in Chapter 4. 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. Graph integers on a number line.
- C. Compare integers.
- D. Use the order of operations.
- E. Solve equations using the addition and multiplication properties.

OBJECTIVE A: Perform operations on whole numbers and integers.

1. Add.

a) $897 + 284 + 312$

b) $(-18) + (-6)$

c) $-16 + 5$

d) $12 + (-25)$

e) $-5 + 4 + (-3)$

f) $20 + (-11) + (-3) + 6$

2. Subtract.

a) $6902 - 4375$

b) $-17 - (-27)$

c) $20 - 32$

d) $-23 - 33$

e) Find the difference of -24 and -19 .

f) $-21 - (-15) + (-8)$

3. Multiply.

a) $217 \cdot 53$

b) $(-5) \cdot (-12)$

c) $-2(-7)(-3)$

d) $2^4 \cdot 3^2$

4. Divide, if possible.

a) $\frac{-368}{16}$

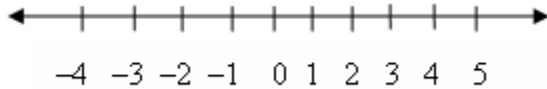
b) $\frac{42}{-7}$

c) $\frac{12}{0}$

d) $\frac{9308}{26}$

OBJECTIVE B: Graph integers on a number line.

5. Graph $-3, 2, 0, 4, -1$ on the number line.



OBJECTIVE C: Compare integers

6. Insert $<$, $>$, or $=$ between each pair of numbers to make a true statement.

a) -8 _____ -3

b) $-(-12)$ _____ $|-12|$

c) -9 _____ $-|-12|$

OBJECTIVE D: Use the order of operations.

Simplify each expression.

7. $-(-5)^2 \div 5 \cdot (-3)$

8. $4(7 - 4) + (-2)^3$

9. $-5 + (-45) \div (-15)$

10. $-3(4-7)^2 - 5(5-8)^3$

11. $\frac{-8(-2) - 4}{-1(8-5)}$

12. $\frac{-12 + 5(2) - 10}{2^3 - 2}$

OBJECTIVE E: Solve equations using the addition and multiplication properties.

Solve each equation.

13. $-25 = -17 + x$

14. $\frac{x}{12} = -6$

15. $11x - 7 = 10x + 4$

16. $4x + 8 - 2x + 6 = 12$

17. $-3(x + 5) - 7 = 5$

18. $8 - 3(x + 2) = 7x - 8$