

Math 0097  
University of North Georgia  
Spring 2015  
Quiz #5

Name: Key Date: February 13, 2015

1. Compute the expression.

$$\begin{aligned} & -14 + (-9) - |-12| - |-7| \\ & -14 + (-9) + (-12) + (-7) \\ & = -23 + (-12) + (-7) \\ & = -35 + (-7) \\ & \boxed{-42} \end{aligned}$$

2. Compute using the *Distributive Tool* (i.e. show ALL steps for credit!)

$$\begin{aligned} -5(-3 + 8) &= (-5)(-3) + (-5)(8) \\ &= 15 - 40 \\ &= \boxed{-25} \end{aligned}$$

3. If the product of  $-5$  and  $11$  is added to the product of  $-7$  and  $3$ , what is the sum?

$$\begin{aligned} (-5)(11) + (-7)(3) &= -55 + (-21) \\ &= \boxed{-76} \end{aligned}$$

4. If the product of two *Integers* is zero, what **must** be true? Be very specific!

① One integer is zero:  $0(x) = 0$

② Both integers are zero:  $(0)(0) = 0$

5. Use *Order of Operations* to simplify the expression.

$$|-5|^2 - 2(3 - |-9|) - (-2)$$

$$|-5|^2 - 2(3 + (-9)) - (-2)$$

$$|-5|^2 - 2(-6) - (-2)$$

$$(5)^2 - 2(-6) - (-2)$$

$$25 - 2(-6) - (-2)$$

$$25 + 12 - (-2)$$

$$25 + 12 + 2$$

$$37 + 2$$

$$\boxed{39}$$