

Math 94 Homework #3**1.4 – 1.8 Name: _____**1.) .) For $-\frac{3}{4}$, give:

A.) Opposite

B.) Reciprocal

C.) Absolute Value

2.) Graph the #'s on a number line: $\left\{-4, \frac{2}{5}, 0.5, -1.6, \frac{5}{2}\right\}$ 3.) Compare using $>$ or $<$
 -11 _____ -5

4.)

Fill in the table:

Starting Point	#'S that are three units away from starting point	
	Left	Right
1		
	-7	-1
2		
0		
	-1	5

5.) Add: $3 + 7 + (-3) + (-18)$ 6.) Add: $[3 + (-7)] + (-4 + 9)$ 7.) Subtract: $3 - (-6)$ 8.) Subtract: $-5 - (-2)$ 9.) Subtract: $-2 - (-4 - 10)$ 10.) Combine: $-4 - [(-7 + 5) - (3 - 12)] + 10$

11.) Simplify: $-3(-2)^2$

12.) Simplify: $(-3)(4) - (6 - 8)^2$

13.) Simplify: $-2\left(\frac{-12}{3}\right) + (-7 - 5)$

14.) Simplify: $\frac{-4(-3)(-1)}{-3^2}$

Translate the expressions into algebra:

15.) Six less than a number

16. The sum of half a number and twelve

17.) Four times the difference of a number and three

18.) Six more than a number and three

Evaluate:

19.) $2(x - 5)$ if $x = 7$

20.) $\frac{3 - x}{x - 2}$ if $x = -1$

21.) $a(2b - 5)$ if
 $a = -3$ and $b = 5$

22.) $x^2 - 4x + 1$ if $x = -2$