Unit 1: Number Skills Day 1

Math 9 Principles

1-1: I can identify numbers on a number line, compare positive and negative numbers, and evaluate absolute values.

Place a <, >, or a = sign between each:

1) -3_____$|5|$

2) $|6-2|$_____$|-4|$

3) 9_____$|-4|$

4) $-|-8|$_____$|-3|$

5) $|-6|$_____$|-8|$

6) -7_____$|-9|$

7) $|-3|$_____$|-1|$

8) $|-10|$_____-7

9) $|3-5|$_____$|0|$

10) $|9-12|$_____$|15-13|$

11) -3_____$|5-10|$

12) $|13-20|$_____4

Evaluate each absolute value expression
(Show all work: rewrite each first without the absolute value symbols)

13) $|-1|+8$

14) $|-10|-3$

15) $|-3|+|-9|$

16) $6-|-2|$

17) $|-7|-|-2|$

18) $8+|-3|$

19) $|-2|+|-5|$

20) $|-3|-|-9|$

21) $|-4|+8$

22) $|-3|-2+|-4|$

23) $-5+|9-2|$

24) $|-3+5|-|-2|$

25) $-10+|3-7|$

26) $-10-|3-7|$

27) $|5|-|-7|$

28) $|-9+3|-|10-9|$

Complete the following:

29) Graph the following numbers on a number line: $5, 0, -6, 2, -3, 4$

30) Rearrange the following integers from least to greatest: $-4, 8, 12, -10, 0$

31) Rearrange the following integers from greatest to least: $-9, 10, -5, 0, 3, 6, -1$

32) Rearrange the following integers from greatest to least: $-9, -18, 3, 15, -2$

33) Evaluate the expression $|x + y| + |z|$ when $x = -2$, $y = 4$, and $z = -5$.

34) Evaluate the expression $|a| - |b - c|$ when $a = 6$, $b = 10$, and $c = -8$.

35) Evaluate the expression $a - |b - c|$ when $a = 4$, $b = -5$, and $c = 6$.

36) Evaluate the expression $|x - y| + |x - z|$ when $x = 0$, $y = 4$, and $z = -3$.