Test 1 Study Guide 092513 Pd:____ Name: KEY

1) Simplify. $-|-5| - |10| + 9$

$-5 - 10 + 9$

$-15 + 9$

-6

2) Simplify. $|-27| - (-4)(5)$

$27 - (-20)$

$27 + 20$

47

3) A submarine hovers at one hundred twenty feet below sea level. If it ascends thirty feet, what's the new position?

$-120 + 30$

-90 feet

4) The quotient of negative one hundred and positive ten.

$-100 \div 10$

-10

5) Simplify. $[-9 \cdot (-4)] - [7 \cdot (-8)]$

$36 - (-56)$

$36 + 56$

92

6) Simplify. $8(-2 + 6)$

$8 \cdot -2 + 8 \cdot 6$

$-16 + 48$

32

7) Simplify. $[-20 + (-5)] \div 5$

$-25 \div 5$

-5

8) Simplify. $[(-8 + (-7)] \cdot [-3 - (-5)]$

$-15 \cdot 2$

-30

9) Simplify. $-9 + 3$

-6

10) Simplify. $8 - (-2)$

10

11) Simplify. $-8 \cdot 3$

-24

12) Simplify. $-81 \div 9$

-9

13) Simplify. $-5 + (-17)$

-22

14) Simplify. $4 - 13$

-9

15) Simplify. $-2 \cdot (-11)$

22

16) Simplify. $-121 \div (-11)$

11

17) Simplify. $2(3x - 5)$

$6x - 10$

18) Simplify. $-7[3x + (-9)]$

$-21x + 63$

19) The product of four and w.

$4w$

20) Five more than twice the sum of an unknown number and eleven.

$2(x + 11) + 5$

21) Simplify. $2x + 13 + 3x - 8$

$5x + 5$

22) Simplify. $2xy + 5wy - 9x - x + 4xy + 6y$

$6xy + 5wy - 10x + 6y$

23) Simplify. $-13x + (-14y) - 17x + 14y$

$-30x$

24) Simplify. $-9(4a + 8 - 6) + 2a$

$-34a + (-18)$

Use the expression **2x + (-7y) + 3w + (-17z) + 12** to answer the following questions.

25) How many terms are there?

5

26 List the coefficient(s)

2, -7, 3, -17

27) List the constant(s)

12

28) List the variable(s)

x, y, w, z

29) The formula that is used to convert Fahrenheit (F) to Celsius (C) is $5 \cdot (F - 32) \div 9$. Convert 86°F to degrees in Celsius.

$5 \cdot (86 - 32) \div 9$

$5 \cdot (54) \div 9$

$5 \cdot 6$

30°C

30) Ms. Li wants to make a rectangular garden. The length of the garden is 4ft and width of the garden is 9ft. Use the following formula to find the perimeter of the garden. $P = 2l + 2w$

$2l + 2w$

$2(4) + 2(9)$

$8 + 18$

26ft