Math 1- NON-CALCULATOR PORTION Name_____

Midterm Review 2013-2014

Date_____ Period____

Evaluate each expression.

1) $(-3)-(-6)$

2) $(-2)+(-3)$

3) $3-2$

4) $7+(-2)$

5) $(-7)+2$

6) $(-4)-7$

7) $2-7$

8) $6+(-6)$

9) $(-8)+6$

10) $(-4)+(-6)$

11) $(-1)-(-2)+8$

12) $2-(-6)-8$

13) $5-(-2)-7$

14) $(-8)+2+(-2)$

Find each quotient.

15) $\frac{30}{-3}$

16) $\frac{36}{-6}$

17) $\frac{16}{8}$

18) $\frac{-16}{4}$

19) $100 \div 10$

20) $-56 \div 7$

21) $14 \div -7$

22) $20 \div -4$

Find each product.

23) $(-9)(8)$

24) $(-3)(-9)$

25) $(6)(-3)$

26) $(9)(-7)$

27) $-6 \cdot -1$

28) $-9 \cdot -10$

29) $-2 \cdot -5$

30) $-8 \cdot 4$

Math 1

Midterm Review 2013-2014

Evaluate each expression.

1) $6 - (2 + 11 - 3) \div 5$

2) $3 - (3 - 6 \div (4 + 2))$

3) $(16 - 3 - (6 - 1)) \div 4$

4) $3 + 2 - 6 \div (2 \times 3)$

5) $(2 + 3)(4 + 4 + 5 - 1)$

6) $(3 - 3 + 4)(6 - 4)^2$

7) $2 \times \frac{13 - 3}{1 + 1} - 5$

8) $\frac{12}{2 \times 3} \times \frac{18}{3 \times 2}$

Evaluate each using the values given.

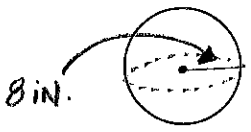
9) $(2x)^2 - (y + x - x)$; use $x = 3$, and $y = 3$

10) $\frac{m^2 + 4p + m}{4}$; use $m = 3$, and $p = 4$

11) $zx + z + y - (z - x)$; use $x = 2$, $y = 6$, and $z = 3$

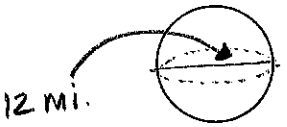
12) $p - \frac{p + p}{6}(p - m)$; use $m = 6$, and $p = 6$

Find the **surface area**. Round your answer to the nearest tenth, if necessary.



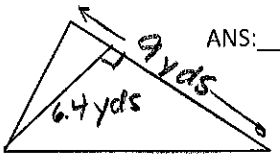
ANS:_____

Find the **volume**. Round your answer to the nearest tenth, if necessary.



ANS:_____

Find the **area**. Round your answer to the nearest tenth, if necessary.



ANS:_____

List all positive factors and determine whether it is prime or composite.

26:_____

Circle one: Prime Composite

23: _____

Circle one: Prime Composite

Write the prime factorization of each using a factor tree.

0

ANS:_____

30

ANS:_____

27

ANS:_____

Find the GCF and circle.

28:_____

39:_____

18: _____

40:_____

Find the LCM and circle.

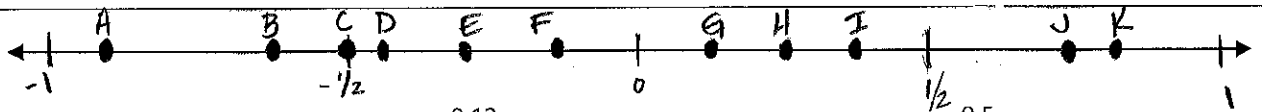
18:_____

12:_____

26:_____

32:_____

Which letter best represents the location of the following numbers?



0.13 _____

0.25 _____

0.37 _____

-0.13 _____

-0.29 _____

0.82 _____

-0.5 _____

-0.43 _____

0.75 _____

Midterm Review 2013-2014

Simplify each expression.

1) $3(x-9)$

2) $-4(1-4x)$

3) $4(3-9k)$

4) $-(-a+8)$

5) $-9(1+2x)$

6) $9(-2p-9)$

7) $-10(1+6n)-3$

8) $-8(m-10)+2$

9) $8r+6(9-10r)$

10) $-8+2(5x-10)$

11) $7(4+10n)+4$

12) $-10b+2(b+7)$

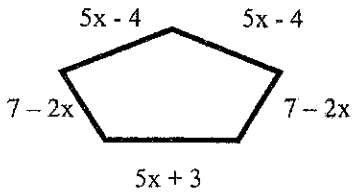
Solve each absolute value problem

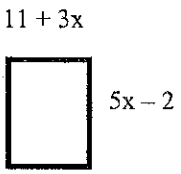
1) $\lvert 9\rvert - \lvert 14\rvert$ =	2) $\lvert -11\rvert - \lvert 3-5\rvert - \lvert 8\rvert$ =
3) $-42 - \lvert +7-14\rvert + 29$ =	4) $\lvert 24\rvert - \lvert -91\rvert + 52$ =
5) $\lvert 5-18\rvert - 6 + 47$ =	6) $17 + \lvert 23-56\rvert - 64$ =

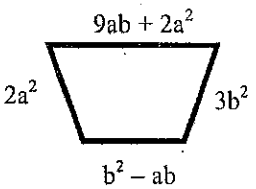
Identify the sets to which each of the following numbers belongs by marking an "X" in the appropriate boxes.

	Number	Natural Numbers	Whole Numbers	Integers	Rational Numbers	Irrational Numbers	Real Numbers
1.	$-\sqrt{17}$						
2.	-2						
3.	$-\frac{9}{37}$						
4.	0						
5.	-6.06						

1) Find the perimeter of each of the shapes pictured below:







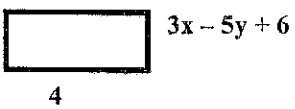
ANS:_____ **ANS:**_____ **ANS:**_____

2) FIND THE AREA OF THE GIVEN SHAPES:

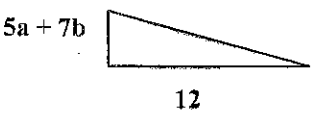
Equation #1: Area of Rectangle = Length * Width,

Equation #2: Area of Triangle = ½ *Base*Height

a. Find area of a rectangle with length of 4 and width of $3x - 5y + 6$.



b. Find area of a triangle with base of 12 and height of $5a + 7b$



ANS:_____ **ANS:**_____

3.) Find the solution set of **$-5 + 10x < 10$**. The replacement set is **{0, 1, 2}**.

Replace x with _____.

_____

_____

_____

Replace x with _____.

_____

_____

_____

Replace x with _____.

_____

_____

_____

The solution set is _____.