Math 2- 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) $-8 \cdot 4$

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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 $p = 6$

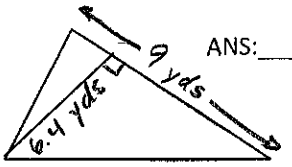
Find the **surface area**. Round your answer to the nearest tenth, if necessary.

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.

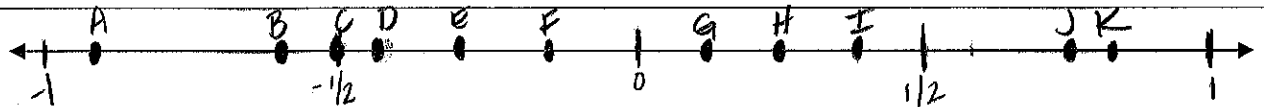
18:_____

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 _____

Math 2

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Simplify each expression.

1) $6(4v-1)+2(v-10)$

2) $-2(-3n+10)+3(n+1)$

3) $2(9x+8)-(5+2x)$

4) $-9(1-4a)+8(1-7a)$

Solve each equation.

5) $70=-7(2+2m)-6(8-6m)$

6) $-26=-2(6p-5)-4(5p-7)$

7) $7(1-3x)=-7(3+5x)$

8) $6(n+7)-5n=5(n-6)+4n$

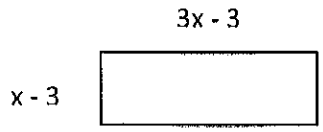
Translate the English words into an algebraic expression or equation.

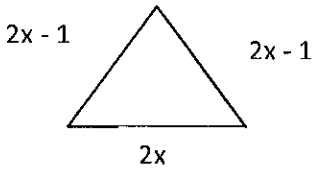
English Words	Expression
Five times the sum of x and 2	
Seven is greater than x	
Five times the difference of a number and 4	
The sum of 5x and 10 is equal to the product of x and 12	
The sum of two consecutive integers	
The sum of two consecutive even integers	
The sum of two consecutive odd integers	

Write the equation and solve. Show all work to receive credit!!!

Clair purchased just enough fencing to border either a rectangular or triangular garden, as shown. The perimeters are the same.

How many feet of fencing did she buy? ANS:_____





Aaron needs to take out a load to purchase a motorcycle. At one bank, he would pay $2500 initially and $140 each month for the loan. At another bank, he would pay $3000 initially and $125 each month.

After how many months will the 2 loan payments be the same? ANS:_____

GYM	FEES
Workout Now	$200 plus $45 per month
Community Gym	$50 plus $55 per month
Ultra Sports Club	$20 plus $60 per month

After how many months will the fees for Workout Now and Community Gym be the same?

ANS:_____

After how many months will fees for Workout Now and Ultra Sports Club be the same?

ANS:_____

Write the equation for the given word problem. Solve and write your answer on the line provided.

Four times the sum of a number and 7 is 48. Find the number.

Equation:_____ Ans:_____

If Mario's age is decreased by 7, and that difference is multiplied by 5, the result is 45 years. Find Mario's age.

Equation:_____ Ans:_____

Mr. and Mrs. Griffith are taking their son, Carl, and 3 of his friends to the movies. An adult ticket is $1.50 more than a children's ticket. Mr. Griffith paid a total of $24.00 for the tickets. How much is an adult ticket?

Equation:_____ Ans:_____

The formula for the perimeter of a rectangle is $P = 2L + 2w$. If the perimeter of a rectangle is 56 inches and the width is 12 inches, find the length.

Equation:_____ Ans:_____

Kylie and Hunter are taking a trip. They drive 325 miles on the interstate at 65 mi/h. How many hours does this trip take?

Equation:_____ Ans:_____