## Math Grade 7 Unit 1 REVIEW for MIDTERM 2010 Name:\_\_\_\_\_

Algebraic expression	Written in WORDS	Numeric coefficient	Variable	Constant term
2n				
n+4				
3r - 2				
	Three more than double a number			
	Four more than the quotient of g and 2			
	Seven less than eight times a number, p			
	Two more than the product of a number, h, and 6			

## 1. Fill in the blank with the correct response.

## 2. Evaluate the following:

A) 3w + 6 if w = 7	B) $18 - \frac{x}{3}$ if $x = 15$	C) 2k -6 when k = 3
D) $\frac{7}{0} = $	E) 11z if z = 8	F) $\frac{0}{9} = $

## 3. Write a sentence for each equation.

B) y +9 = 17	C) $\frac{a}{4} = 44$
	B) γ +9 = 17

4. Fill in the missing digit to make these numbers divisible by the number indicated.

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A) 15	divisible b	y 2 and 4			
B) 16	divisible b	y 3 and 5			
C) 680	divisible b	y 4 and 10			
D) 20	divisible b	y 6 AND 5			
5. Give the rule f	or the following re	elation:			
A) (i) symbo	olically (the algebr	aic expression):			
(ii) mapp	oing:				
(iii) in wo	ords				
Term number	1	2	3	4	5
Term	4	8	12	16	20
B) (i) symbolically (the algebraic expression):					
(iii) in wo	ords				
Term number	1	2	3	4	5

6.	Complete the following tables.

A)

Term

Input	Output 2n +4
n	2n +4

Input	Output
n	3n- 6
	0
	3
	6
	9
	12

- 7. Fill In the blank.
- A) 2r +5 = 11 is an example of a(n)\_\_\_\_\_\_.
- B) 3r +9 is an example of a(n)\_\_\_\_\_\_.
- 8. Write the relation for the values given in the table below.
- A) (i) symbolically (the algebraic expression):

(ii) mapping:\_\_\_\_\_\_

Input	Output
n	?
1	5
2	10
3	15
4	20
5	25

B) (i) symbolically (the algebraic expression):

(ii) mapping:\_\_\_\_\_

Input	Output
n	?
1	11
2	14
3	17
4	21
5	24

9. Using BEDMAS, solve for the missing term. SHOW YOUR WORKINGS.

A) 4x + 5= 41	B) y - 12 = 21	C) $\frac{t}{6} = 30$
D) 8r = 56	E) $\frac{30}{2} = r - 2$	

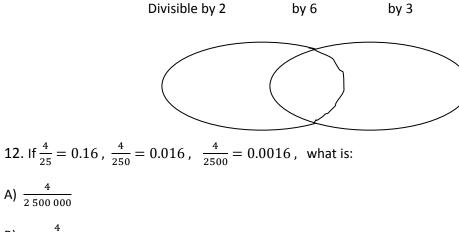
10. Every week John earns \$8 plus \$3.00 per hour babysitting his sister.

A) Write an algebraic expression for his earnings\_

B) Calculate his earning when he works the following hours:

Hours	Earnings
0	
1	
2	
2.5	
3	

11. Complete the Venn Diagram placing the following numbers based on the divisibility rules for 2 and 3 with the numbers:16, 33, 14, 30, 18, 50



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B) \frac{4}{2\ 500\ 000\ 000}
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