

Class: _____

1. Fill in the blank with the correct response.

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			

2. Evaluate the following:

A) $2w + 5$ if $w = 10$	B) $20 - \frac{x}{3}$ if $x = 18$	C) $3k - 6$ when $k = 5$
D) $\frac{7}{0} = \underline{\hspace{2cm}}$	E) $8z$ if $z = 8$	F) $\frac{0}{9} = \underline{\hspace{2cm}}$

3. Write a sentence for each equation.

A) $e - 5 = 8$	B) $2y + 1 = 7$	C) $\frac{a}{5} = 20$
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4. Fill in the missing digit to make these numbers divisible by the number indicated.

- A) 15____ divisible by 2
- B) 36____ divisible by 5
- C) 23____ divisible by 3
- D) 4____2 divisible by 9
- E) 21____ divisible by 4
- F) 704____ divisible by 8
- G) 902____ divisible by 6
- h) 35____ divisible by 10

5. Fill in the table with the number which divides into the number given.

NUMBER ↓	÷ 2	÷ 3	÷ 4	÷ 5	÷ 6	÷ 8	÷ 9	÷ 10
250								
136								
108								

6. Give the rule for the following relation:

- A) (i) symbolically (the algebraic expression): _____
- (ii) mapping: _____
- (iii) in words _____

Term number	1	2	3	4	5
Term	3	6	9	12	15

- B) (i) symbolically (the algebraic expression): _____
- (ii) mapping: _____
- (iii) in words _____

Term number	1	2	3	4	5
Term	7	9	11	13	15

7. Complete the following tables.

A)

Input n	Output $2n + 1$

B)

Input n	Output $5n - 6$

C)

Input n	Output $20 - 2n$

8. Fill In the blank.

A) $5r + 6 = 16$ is an example of $a(n)$ _____.

B) $5r + 6$ is an example of $a(n)$ _____.

9. Write the relation for the values given in the table below.

A) (i) symbolically (the algebraic expression): _____

(ii) mapping: _____

Input n	Output ?
1	4
2	8
3	12
4	16
5	20

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

(ii) mapping: _____

Input n	Output ?
1	8
2	9
3	10
4	11
5	12

C) (i) symbolically (the algebraic expression): _____

(ii) mapping: _____

Input n	Output ?
1	6
2	8
3	10
4	12
5	14

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

A) $j - 4 = 10$	B) $2h + 1 = 7$	C) $\frac{t}{6} = 30$
D) $7r = 42$	E) $\frac{20}{2} = r - 3$	

11. Every week John earns \$5 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	