## Unit 3 PRE-Test

Name:							_
	Hour: 1	2	3	4	5	6	7

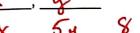
1. Name the parts of the expression.

$$6x + 5y + 8$$

Constant:

Coefficient: 6 45,

Variable: 
$$\chi$$
,  $\chi$ 



2. Name the parts of the expression.

$$4x + 6y - 7$$

Constant: -7

Coefficient: 4\_\_\_, \_\_



Terms:

,	4	4		
	1	0		

3. Evaluate the expression for m = 4

$$60 - 2m$$

4. Evaluate the expression for x = 2 and y = 6

$$x^3 + (y+4) \div x$$

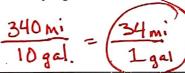
$$2^3 + 16 \div 2$$



## Evaluate the expression.

5. Use the expression  $d \div g$  to find the gas economy of a car in miles per gallon (mpg), where  $\underline{d}$  is the distance traveled, and  $\underline{g}$  is the gallons of gas used.

Find the gasoline economy figure for a car that travels 340 miles on 10 gallons of gasoline.



## **MUST SHOW WORK**

- 6. Choose the expression that describes the relationship of the data in the table.
  - n 10 3 15
  - 4 x 1 20 25
- 7. Choose the expression that describes the relationship of the data in the table.

A: a+1

C: a + 12

D: a + 17

Tom's	Kim's		
Age (a)	Age		
12 +3	15		
13 +3	16		
14 +3	7		
a +3	7		

8. Choose the expression for the sequence in the table.

Position (n)	1	2	3	4	5	n
Value of Term	5	8	11	14	17	?
		_	A	_		

A: 4n

A: n + 8

B: 5n

C: 8n

D:  $^{n}/_{4}$  (same as  $n \div 4$ )

B: n + 4

C: 2n - 1

D: 3n + 2

9. Write TWO WORD expressions for the v - 16expression

b. 16 less than i

- 10. Write the phrase "24 groups of y" as an algebraic expression.
- a. the difference of yand 16.
- 11. Susie has 6 times as many games as both

Tammy and Jamie combined. If Tammy has tgames and Jamie has j games, which expression shows how many games Susie has?

12. Which expression is equivalent to

$$2(x + y)$$

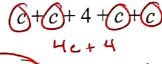
- A: t+j
- C: t + 6j

- A: 2xy
- C: 2x + y

- B: 6t + j
- (D: 6(t+j)
- 2x + 2y
- D: 2xy + 2xy

13. Simplify the expression by combining Like Terms.

14. Select ALL of the expressions that are equivalent to

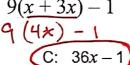


- $4c^4$

16. Which expression is equivalent to

- $4 + 4c^4$
- 4(1+c)

- 15. Simplify the expression using the Distributive **Property**



3×+15

B: 12x - 1

A: 11*x* 

D: 36x - 9

- 17. Select ALL of the expressions that are 8(t+4)8t+32 equivalent to
- 18. Find the GCF from a Division Ladder & rewrite the expression using the Distributive Property.

- 8t + 32
- 2(4t+2) 4t+4+4t

 $(8 \times t) + (8 \times 4)$ 

3(4+1)

- (8+t)+(8+4)
- 19. Write the expressions in the appropriate boxes

Equivalent to 3y + 3

24+4+3

$$3(y) + 1$$

$$\leftarrow$$
 3(y + 1)

$$3(y) + 1y \longrightarrow$$

$$\angle 2y + y + 3$$

NOT Equivalent to 3y + 3

3(4) +1

3(4)+14