# Name: \_\_\_\_\_ Period: \_\_\_\_\_ I Writing and Evaluating Expressions Assignment

Write an algebraic expression for the word expression.

1.	The quotient of $oldsymbol{y}$ and 14	2.	The sum of 15 and the product of 5 and <b>z</b>	3.	Twice a number increased by 13.
4.	The sum of 7 and the product of 2 and <i>x</i>	5.	16 decreased by <b>x</b>	6.	A number $x$ divided by 4
Write	e the word expression for eac	h alge	braic expression.		
7.	x-6	8.	<i>c</i> – 4	9.	$k^{3} + 5$
10.	3 <i>k</i> <sup>2</sup>	11.	2 <i>a</i> + 6	12.	$\frac{x+4}{3}$ or $(x+4) \div 3$

#### Write an expression to match the words.

- **13.** Alan had 9 fish and bought some more.
- 14. Represent the total number of calories in x peanuts and y potato chips if each peanut contains 5 calories and each potato chip contains 10 calories.
- 15. Karen spent \$300 on jacket and jeans. If she spent y dollars for the jacket, represent the amount she spent for the jeans.
- **16.** If a plane travel **600** kilometers per hour, represent the distance it will travel in *k* hours.

### 💸 PreAlgebraCoach.com

# Name: \_\_\_\_\_ Period: \_\_\_\_\_ [ Writing and Evaluating Expressions Assignment

Use a bar model to represent each expression.

 $\frac{y}{4}$ 

17. x + 5

18.

Evaluate each expression for the given values of the variable.

19.	65 - (x - y)	/) =	20.	$5k + j^2(72 - $	-3k) =
	<i>x</i> = 25	<i>y</i> = 12		<i>k</i> = 15	<i>y</i> = 10

21. 
$$\frac{2x+3y}{10} - (4x-3y) =$$
  
 $x = 15$   $y = 10$   
22.  $3a+4b-(a+b)^2 =$   
 $a = 10$   $b = 6$ 

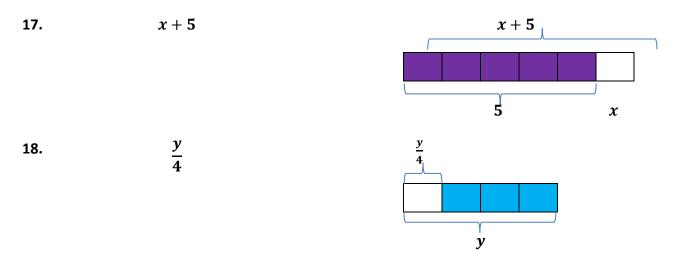
### 💸 PreAlgebraCoach.com

Name	2:			Period:		Date:		
	riting and Evalua NERS	atir	ng Express	sions Ass	sign	ment		
	e an algebraic expression for	the w	ord expression.					
1.	The quotient of y and 14	2.	The sum of 15 a product of 5 and		3.	Twice a number increased by 13.		
	$\frac{y}{14}$ or $y \div 14$		15 + 5	52		2h + 13		
4.	The sum of 7 and the product of 2 and $x$	sum of 7 and the <b>5.</b> 16 decreased by $m{x}$ uct of 2 and $m{x}$		v x (	6.	A number $x$ divided by 4		
	7+2x		16 –	x		$\frac{x}{4}$ or $x \div 4$		
Write	e the word expression for eac	h alg	ebraic expression.					
7.	<i>x</i> – 6	8.	<i>c</i> – 4	4 <u>9</u>	9.	$k^{3} + 5$		
	The difference of a number $x$ and 6		A number <i>c</i> tal	ke away 4		<b>k</b> cubed increased by 5		
10.	$3k^2$	11.	2a + 1	<b>6</b> 1	12.	$\frac{x+4}{3}  or  (x+4) \div 3$		
	3 times <b>k</b> squared		6 <mark>more than</mark> the times <i>a</i>			3 The sum of a number x and 4, all divided by 3		
Write	e an expression to match the	word	s.					
13.	Alan had 9 fish and bought some more.			y – number of new fish				
				Total numbers of fish 9+y				
14.	peanuts and y potato	t the total numbers of calories in $x$ and $y$ potato chips if each peanut 5 calories and each potato chip contains				f peanuts f potato chips		
	contains 5 calories and each potato chip contains 10 calories.			Total calories $5x + 10$				
15.	Karen spent \$300 for jacket and jeans. If she spent $y$ dollars for the jacket, represent the amount she spent for the jeans.			y – dollars for jacket				
				Dollars for jeans 300 – j				

### X PreAlgebraCoach.com

3

#### Use a bar model to represent each expression.



Evaluate each expression for the given values of the variable.

19. 65 - (x - y) = x = 25 y = 12 65 - (x - y) = = 65 - (25 - 12) = = 5220.  $5k + j^2(72 - 3k) =$  k = 15 y = 10  $5k + j^2(72 - 3k) =$   $= 5*15 + 10^2(72 - 3*15) =$  = 75 + 100 \* (72 - 45) = = 75 + 100 \* 27 = = 75 + 2,700 == 2,775

## Writing and Evaluating Expressions Assignment

21. 
$$\frac{2x+3y}{10} - (4x-3y) = x = 15$$
$$y = 10$$
$$\frac{2x+3y}{10} - (4x-3y) = \frac{2*15+3*10}{10} - (4*15-3*10) = \frac{30+30}{10} - (60-30) = \frac{60}{10} - 30 = \frac{60}{10} - 30 = \frac{60-30}{10} = \frac{-24}{10}$$

22. 
$$3a+4b-(a+b)^2 =$$

$$a=10$$
  $b=6$ 

$$3a + 4b - (a + b)^{2} =$$

$$= 3 * 10 + 4 * 6 - (10 + 6)^{2} =$$

$$= 30 + 24 - (16)^{2} =$$

$$= 30 + 24 - 256 =$$

$$= 54 - 256 =$$

$$= -202$$