Name:	Date:		
Evaluating /	Algebraic Expressions		

WARM-UP

Evaluate each numerical expression below:

$3 \times 5^2 + 6$	9 ² – 8 x 10
$3^3 \div 9 - 1$	$12^2 + 4^2 - 2^3$

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Evaluating Algebraic Expressions

EXIT SLIP

Evaluate each expression when a=10 and b=15

b — a	
$a^2 - b$	
2ab	
3a + b	

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Evaluating Algebraic Expressions

PRACTICE PROBLEMS

Simplify each expression:

#1 Evaluate the expression below when g = 5

$$7 + g$$

#2 Evaluate the expression below when h = 2

$$3 - h$$

#3 Evaluate the expression below when m = 35 and n = 7

$$m \div n$$

#4 Evaluate the expression below when m = 15 and n = 3

$$3m + 2n$$

#5 Evaluate the expression below when q = 10

$$6g^2$$

#6 Evaluate the expression below when y = 11 and w = 12

$$8y - 2w$$

#7 Evaluate the expression below when k = 12

$$\frac{8k}{4}$$

#8 Evaluate the expression below when x = 3 and y = 4

$$3x^3 + y$$

Evaluating Algebraic Expressions

Select the correct answer for each question.

1. Evaluate the expression when

3a

$$a = 3$$

- a) 3
- b) 9
- c) 33
- d) 27
- 3. Evaluate the expression when c = 4 and d = 6

$$2c^2 + 3d$$

- a) 32
- b) 50
- c) 64
- d) 82
- 5. The cost of a taxi can be calculated using the expression 3 + 2.25m where the number of miles is represented using the variable m. If a ride is 6 miles, how much does it cost in all?
 - a) \$6
 - b) \$13.50
 - c) \$16.05
 - d) \$16.50

2. Evaluate the expression when b = 9

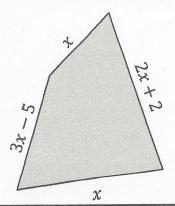
$$b^2 - b$$

- a) 9
- b) 18
- c) 72
- d) 81
- 4. Evaluate the expression when x = 0.5 and y = 2

$$8x + 0.5y$$

- a) 4
- b) 5
- c) 8.5
- d) 14
- 6. Select all of the expressions that have a value of 20 when y=3
 - a) 2y + 7
 - b) 7y 1
 - c) $y + y^2 + 8$
 - d) $3y^2 9$
 - e) 2y + 6y 4

Answer the question below. Be sure to show all of your work. Find the perimeter, in inches, of the figure when x=9.



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Evaluating Algebraic Expressions

WARM-UP

Match each algebraic expression to the word phrase.

10k

k less than 10

k-10

The sum of k and 10

10-k

The product of 10 and k

k + 10

The difference of 10 and k

Name:____

Date:_____

Evaluating Algebraic Expressions

EXIT SLIP

The expression 5a + 3c can be used to find the cost of a adults and c children to attend the school play. What is the cost of 4 adults and 9 children to attend the school play?