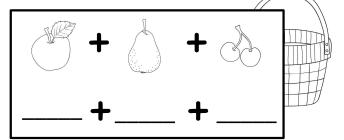
Unit: Expressions Student Handout 3

Name _____ Date Pd

EVALUATING EXPRESSIONS

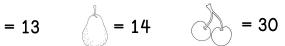
Farmer Marcell is harvesting fruit from her orchards. The picture at the right shows a symbolic expression for the number of pieces of fruit in her basket.



a. Substitute the value of each fruit to determine the total amount of fruit harvested.





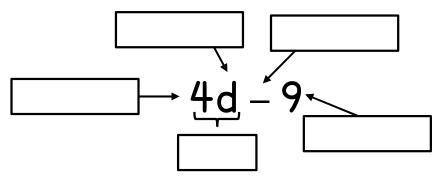


b. Rewrite the expression using the letters "a", "p" and "c" to represent each fruit symbol.

EXPRESSIONS

- An expression is a mathematical phrase that contains _____, and _____.
- A ______ is used in mathematical expressions to represent an unknown numerical value.

Label all the parts of the expression below.



For 1-3, evaluate the expression if x = 7, y = 3, and z = 2.

1.
$$x + (y + z)$$

2.
$$z(x) + y - z$$

3.
$$y^2 - z^2$$

4. Evaluate 7x + 5y + 3, if x = 8 and y = 6.

5. List all the parts of the expression in example 4.

Terms:

Variables:

Coefficients of variables: _____ Constants: _____

	sions is commonly used wns. Use the formulas to co		values into formulas to solve by evaluating the
2.7 cm	6 cm	11 c	m
FORMULA	A = bh	FORMULA	$A = s^2$
EXPRESSION		EXPRESSION	
SIMPLIFY		SIMPLIFY	
6. Darius is building garden are shown b total distance around	elow. Use the formula for d the garden.	ngular butterfly garden. The perimeter of a rec	The length and width of his ctangle, P = 2I + 2w, to find the I = 8.3 ft w = 4 ft
7. I wo squares are the area of the two			find the difference between $c = 5 cm$
	rror as she evaluated the correctly evaluate the exp		10 and y = 2. Determine 4x + y ² 410 + 2 ² 414

Unit: Expressions Homework 3

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h = 11 in.

EVALUATING EXPRESSIONS

Match each correct answer to a letter to complete the riddle below.

5x + 9y, when $x = 8$, $y = 11$	6
2 $a^3 - c + b$, when $a = 3$, $b = 6$, $c = 8$	11(d - c) + 3(c + d), when $c = 6$, $d = 9$
3 4(g - h) + 10, when g = 12, h = 7	$g^3 - h^2 + 8$, when $g = 3$, $h = 5$
4 $8 - 2z + 3(x + y)$, when $x = 4$, $y = 9$, $z = 3$	The dimensions of a rectangle are given below. Evaluate P = 2I + 2w. I = 9 w = 3
$k^3 - 4j + 12, \text{ when } k = 8, j = 2$	The screen of a tablet is shaped like a rectangle. Find the area of the screen by evaluating A = bh, when b = 7 in and

W: 25	C: 12	U: 516	H: 78	R: 24	L: 139
M: 68	B: 127	F: -36	N: 2	O: 30	A: 60
Y: 77	Q: 969	D: 210	E: 41	P: 51	T: 10

WHAT DO VADIABLES ASK EACH OTHER WHEN THEY MEET?