Name _____ Date _____ Pd __

CYU 1.4 Exponent, Order of Operation, Variable Expressions & Equations DAY THREE

☑ *Use when you get it right all by yourself*

S Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Translating words to mathematical sentences	1acdegh	1bf	1ij
Operation Symbols: +, -, ·, ÷	2		
Order of Operations: PEMDAS	2	3	5
Perimeter/Area	4a - d	4e - h	
Equation VS Expression	6		

1. Write each sentence as an equation or inequality. Us x to represent any unknown number.

   a. One increased by two equals the quotient of nine and three.

   b. Four subtracted from eight is equal to two squared.

   c. Three is not equal to four divided by two.

   d. The difference of sixteen and four is greater than ten.

   e. The sum of five and a number is twenty.

   f. Seven subtracted from a number is zero.

   g. The product of 7.6 and a number is 17.

   h. 9.1 times a number equals 4.

   i. Thirteen minus three times a number is 13.

   j. Eight added to twice a number is 42.

2. Fill in each blank with one of the following operations: add, subtract, multiply, or divide.
   a. To simplify the expression $1 + 3 \cdot 6$, first _____.

   b. To simplify the expression $(1 + 3) \cdot 6$, first _____.

   c. To simplify the expression $(20 - 4) \cdot 2$, first _____.

   d. To simplify the expression $20 - 4 \div 2$, first _____.

3. Are parentheses necessary in the expression $2 + (3 \cdot 5)$? Explain your answer.

4. Fill in the chart below.

Length: l	Width: w	Perimeter of a Rectangle	Area of a rectangle
4 in	3 in	a)	b)
6 in	1 in	c)	d)
5.3 in	1.7 in	e)	f)
4.6 in	2.4 in	g)	h)

5. Insert a set of parentheses so that the following expression simplifies to 32. $20 - 4 \cdot 4 \div 2$

6. Determine whether each is an expression or an equation.
   a. 5x + 6

   b. 2a = 7

   c. 3a + 2 = 9

   d. 4x + 3y − 8z

   e. $5^2 - 2(6 - 2)$

CYU Reflection: *How far can you go: basic, intermediate, or advanced?*
Rate your mastery level!
How confident are you with the skills this CYU covered? Circle the score you would give yourself.

1 2	3 4 5	6 7	8
Basic	Intermediate	Advanced	Solved ALL!