CC Math 6PLUS	Name:		Date:	Period:
** <sup>*</sup>	nit One Test Revie	w: Long Division, Expone	ents, and Order o	f Operations
Reme	ember: Partial credi	it is granted only when wo	ork is shown and	comprehensible
Section One: Prol	olem Solving.			
	<del>-</del>	ers. If there are 45 lunch ta	ables in the cafeto	eria, how many students car
sit at each lunch ta	ble?	STUDENTS		
		gs that contained a half-do to pack all of the brownie		ch. He had to package 25
	eeks of saving doe	st \$725. She can save \$22 ss she have left until she w	• .	
) Section Two: Exp				
1. Find the value of	1	125		
5. What is the value	e of 9 <sup>0</sup> ?	(0.1)	5	
6. Write (0.5)(0.5)(0	0.5)(0.5)(0.5) in exp	ponential notation. (0.5)	2	
7. How would I exp	ress 49 using expo	onential notation and a ba	se of 7?	*****
3. Carla's home, va	lued at \$230,000,	will increase in value acc	ording to this form	nula:
230,000 x 2.	2 x 2.2 x 2.2 x 2.2			(
How would you e	express this formul	la using exponential notat	ion? 230,000	<u>x(</u> 2.2)'
9. What is the value	$e  ext{ of } (\frac{1}{4})^3 ? \underline{\frac{1}{64}}$	<u>,                                     </u>		
10.Find the value o	of 2 <sup>5</sup> . 32			
11. Simplify: 6 · w	$\cdot 3 \cdot w^2 \cdot 2 \cdot x \cdot x^2 \cdot$	w3 36 W6 x3	<u> </u>	
12. Simplify: $\frac{24a}{4d}$	$\frac{i^3 \cdot e^5}{^2 \cdot e^2}  \qquad $	e <sup>3</sup>		· .

## Section Three: Order of Operations

13. What is the value of the following expression? \_\_\_\_

$$45 + (3^2 - 1)^2 - 6 \cdot 4 + 12$$

4. Evaluate the following expression when x = 2 and y = 5

$$x(4y-2^3)$$

5. Using the correct order of operations, what should you do first?

$$(15+5) \div 5 \cdot 6 - 2^2$$

6. What is the value of the following expression?  $\underline{\hspace{1cm}}$ 

- $[3(24-6)+16] \div 5$
- 7. Where would I place parenthesis in the following problem to make it true?

$$(15-3)+7+5=24$$

8. Using the correct of order of operations, what should you do first?

$$5(3+4^3)+(2+5)^2+8$$

1. MAF DOZEN = 6 16.2:32 11. 6.4.3. W.V.Z.x.x.x.v. 18 36.Ng.x.x.x.x.m.m.r 24 d 3. e 5 12  $on \frac{24 \, d^3 e^5}{4 \, d^2 \, e^2}$ 6 de 3

45+ (32-1)2-6.4+12 45+(32-1)2-6.4+12 45+(9-1)2-6-4+12 195+(9-1)2-6.412 45+(8)2-6.4+12 45(8)2-6.4+12 45164-6.4-12 95+64-6.4+12 45+64-24+12 45+64-29+12 109-24+12 109-24+12 65+12 85+12 14 x (4y-23) x=2 y=5 2(4/5)-23) 2 (4(5)-8) 2(20-8) 2(12) = 24 16 [-3(24-6)+16]=5 [3 (24-6)+16] =5 B(18)+16] ÷ 5 [3(18)+16]=5 [54716] ÷5 154 x16] 25 [70]÷5 [10]25 12. (15-3)+7+5=1 12+7+5 19+5