Algebra Unit 0- Back to Basics Review Name Hour **Day 3 Notes** Date **Order of Operations** Please Parenthesis/Grouping Symbols Excuse xponents or Radicals  $M_y D_{ear}$ Multiply X Divide ÷  $\rightarrow$  From Left to Right  $A_{dd} + S_{ubtract} -$ Aunt Sally  $\rightarrow$  From Left to Right

Examples: Be sure to show each step. DO NOT USE A CALCULATOR!

1.  $10 - 4 \div 2$ 

2.  $5 + 24 \div 6 \cdot 3$ 

REMEMBER  $\bigotimes$  &  $\Rightarrow$  HAVE THE SAME ORDER SO WE HAVE TO GO FROM LEFT TO RIGHT! 3. 8 + (5 + 6) - 10 4. 6<sup>2</sup> - 30 ÷ 3 5. 2[13 - (1 + 6)]

6. Lindsay and Diego are arguing over the following problem. Lindsay says the solution is correct. Diego says that the solution is wrong. Which student has the correct answer?

12÷3+4-24÷3•8 4+4-24÷24 8-1 7

Homework: Unit 0 Day 3 Worksheet

Name\_\_\_\_\_ Date\_\_\_\_\_Hour\_\_\_\_

Evaluate each expression. Show all work. DO NOT USE A CALCULATOR!

Practice 1-2		Exponents and Order of Operations	
Simplify each expression.			
1. 4 + 6(8)	2. $\frac{4(8-2)}{3+9}$	<b>3.</b> $4 \times 3^2 + 2$	
<b>4.</b> 40 ÷ 5(2)	<b>5.</b> 2.7 + 3.6 × 4.5	<b>6.</b> 3[4(8 - 2) + 5]	
<b>7.</b> $4 + 3(15 - 2^3)$	<b>8</b> . 17 – [(3 + 2) × 2]	<b>9.</b> $6 \times (3 + 2) \div 15$	
Evaluate each expression.			
10. $\frac{a+2b}{5}$ for $a = 1$ and $b = 2$	<b>11.</b> $\frac{5m+n}{5}$ for $m = 6$ and $n = 15$		
<b>12.</b> $x + 3y^2$ for $x = 3.4$ and $y =$	3 <b>13.</b> 7 <i>a</i> – 4( <i>b</i>	<b>13.</b> $7a - 4(b + 2)$ for $a = 5$ and $b = 2$	
Simplify each expression.			
14. $\frac{100-15}{9+8}$	<b>15.</b> $\frac{2(3+4)}{7}$	16. $\frac{3(4+12)}{2(7-3)}$	
<b>17.</b> 14 + 3 × 4	<b>18.</b> 8 + 3(4 + 3)	<b>19</b> . 3 + 4[13 - 2(6 - 3)]	
<b>20.</b> 8(5 + 30 ÷ 5)	<b>21.</b> (3.4)(2.7) + 5	<b>22.</b> 50 ÷ 2 + 15 × 4	
<b>23</b> . 7(9 - 5)	<b>24.</b> $2(3^2) - 3(2)$	<b>25</b> . 4 + 8 ÷ 2 + 6 × 3	

Algebra Unit 0- Back to Basics Review Day 3 Order of Operations Quick Check		Name Date	Hour		
Evaluate each expressio	n. Show all work.	DO NOT USE A CA	ALCULATOR!		
1. $3 \cdot 6 + 4 \cdot 2$	2. 36 ÷ 6 + 3	3. 12 ÷ 3 · 2	4. (5 − 4) + 3 ·7		
Algebra Unit 0- Back to Basics F Day 3 Order of Operatic	Review ons Quick Check	Name Date	Hour		
Evaluate each expression. Show all work. DO NOT USE A CALCULATOR!					
1. 3 · 6 + 4 · 2	2. 36 ÷ 6 + 3	3. 12 ÷ 3 · 2	4. (5 – 4) + 3 ·7		
Algebra Unit 0- Back to Basics Review Day 3 Order of Operations Quick Check		Name Date	Hour		
Evaluate each expression. Show all work. DO NOT USE A CALCULATOR!					
1. $3 \cdot 6 + 4 \cdot 2$	2. 36 ÷ 6 + 3	3. 12 ÷ 3 · 2	4. (5−4) + 3 ·7		