6th Grade –Study Guide

6.6c Order of Operations

Skill #1 – Order of Operations Steps				
1. In order of operations, tell what the abbreviation GEMDAS stands for:				
G				
E				
MD and				
	AS and			
2. When simplifying the following, which operation should be performed first?	3. When simplifying the following, which operation should be performed first?			
5 ÷ 1 • 7 + 3 • 4	6 + 7 - 9 + 3 - 1			
A 1 - 7	A 7 – 9			
A 1 • 7 B 7 + 3	B 6 + 7			
C3•4	C 3 – 1			
D 5 ÷ 1	D9+3			
4. When simplifying the following, which operation	5. When simplifying the following, which operation			
should be performed first?	should be performed first?			
$5 + 2^2 - 5 \cdot 1$	7(2 + 6 • 5) – 9			
A 5 • 1	A 7(2)			
B 5 + 2	B 6 • 5			
C 2 ²	C 2 + 6			
$D 2^2 - 5$	D 5 – 9			
Skill #2 – Solving Order of Operations with Whole Nu				
6. What is the value of?	7. What is the value of?			
$11^2 - 7 \bullet 5$	1 + 8 • 4 - 7			
8. What number is equal to	8. What number is equal to			
$6(2^3+1)$	$(4^2)(8-6)$			
9. Which expression has the same value as $30 \div (20 \div 2)$				
A 20 · E	10) • 2			
A 30 ÷ 5 B 30 ÷ 10 C (20 ÷ 3	10) ÷ 2 D 3 ÷ 3			

Skill #3 – Solving Order of Operation 10. An expression is show. What is the expression?			n is show. What is the value of the	
expression? $-1 - 14 \div 7 + 8$		expression?	$-1 + 8 \times 8 \div 4$	
10.01		12.01		
12. Solve: $ -3 + (4 \div -2) $		13. Solve:	5(-8 + 5)	
-5 + (+ + -2)			3(-0 + 3)	
14. Identify each expression that is equivalent to -3. (Circle all correct answers)				
1 + (-5) • 2 + 7	(-17 +	5) ÷ 4	(-9) ÷ 3	
(- 7	•	-,		
-6 – 3	-7 –	(-4)	-11 - (-5) + (-7) • (-1)	
-4 + 5 • (-3) ÷ -15	-1 - (-1	.9) ÷ 3	-14 + -11	
	•			