SOL Lesson 5 Quiz	Name
Props, V.A, Eval	Date
1. Which statement <i>cannot</i> be justified by one of the	2. Which statement is <i>always</i> true?
properties of real numbers?	
$\Delta \qquad (x+y)+z=x+(y+z)$	A $3 \cdot x = 3 + x$
$ \begin{array}{c} \mathbf{R} & (x + y) + z = x + (y + z) \\ \mathbf{R} & 0 + (x + y) = (x + y) + 0 \end{array} \end{array} $	$\begin{array}{c} \mathbf{B} x \div 3 = 3 \div x \\ \mathbf{C} 2 2 \\ \end{array}$
	$C \ 3-x=x-3$
$C (x-y) \div z = x - (y \div z)$ D $ r(yz) = (ry)z$	D $x + \frac{1}{3}(3) = x + 1$
3. What property of real numbers	4. Consider the procedure used below to solve the
justifies the following statement?	given equation.
3a(c)+3a(4)-5y is equivalent to	Given: $2(x-5) = 19$
3a(c+4)-5y	$(1^{st} step) \qquad 2x - 10 = 19$
A Commutative property of multiplication	$(2^{\text{nd}} \text{ step}) \qquad 2x = 29$
B Distributive property for multiplication	(3 rd step) $x = \frac{29}{2}$
over addition	2
D Associative property of addition	Which of the following properties is a justification for the 1 st step?
	 A Commutative property of addition B Distributive property C Transitive property of equality D Associative property of addition
5. Identify the properties that justify the work between Step 3 and Step 4 and between Step 5 and	
Step 6.	A Associative Property of
Write the letter of the property in the blank provided	after the step.
Step 1: $2(2x+3) = (3)(4+x)$	B. Commutative Property of Addition
Step 2: $4x + 6 = 12 + 3x$	C. Distributive Property
Step 3: $4x + 6 - 3x = 12 + 3x - 3x$	_ D. Identity Property of Addition
Step 4: $4x - 3x + 6 = 12 + 3x - 3x$	E. Subtraction Property of Equality
Step 5: $x + 6 = 12$	E Multiplication Property of
Step 6: $x + 6 - 6 = 12 - 6$ \int	F. Multiplication Property of Fouality
Step 7: $x = 6$	Equality
6 What is $g(2)$ for $g(x) = \frac{1}{2}x^3 + 3x$?	7 4 $\sqrt[3]{x} - \sqrt{y}$ where $x = 64$ and $y = 49$

SOL Lesson 5 Quiz	Name	
Props, V.A, Eval	Date	
8 The function $f(x) = 35 + 15x$ represents the amount of money, in dollars, Mr. Lewis earns for working x hours. How much money does Mr. Lewis earn		
for working 20 hours?		
for working a nours.		
9 If $f(x) = \frac{\sqrt{9-x}}{9}$ what is $f(5)$?	¹⁰ What is the value of the expression	
8	1	
	$\frac{1}{4}(x^2 - y^3)$ when $x = 5$ and $y = 3$	
If $x = 3$ and $y = 2$	$r^{y} + 7$	
What is the value of $6x - 3y$	12 What is the value of the expression $\frac{x+z}{7}$	
$\frac{1}{xv}$	if $x = -4$, $y = 2$, and $z = 2$?	
A ⁻ 2		
B ⁻ 1	B 9	
C 2		
D 3	D 16	
12. What is the value of $2x$, $4x$ if $x = \frac{1}{2}$ and	. 1.	
13 what is the value of $3x + 4y$ if $x = -and y = -?$ 3 2		
14 Lincoln Uigh Cabool comed dF 100 in ticket cales for a play. The cast yer		
14 Lincoln High School earned $\$5,100$ in ticket sales for a play. The cost per ticket was $\$12$, let t represent the number of tickets sold to the play. Which		
of the following equations could be used to determine how many tickets were		
sold to the play?		
F $12 = 5.100t$		
G $12t = 5,100$		
H $t = 5,100 - 12$		
t = 5,200 + 12		

