GRADE 6 MATH · CLASSWORK · SPECIAL ED

Use Substitution to Justify Equivalent Expressions

SCORE / 25

01 Part A · Practice

Substitute the same value into both expressions: different values prove they are NOT equivalent; equal values support it.

EXAMPLE

Are $2(x + 3)$ **and** $2x + 6$ **equivalent? Test** $x = 4$**.**

1. $2(4 + 3) = 14$.
2. $2(4) + 6 = 14$.
3. Same value; the Distributive Property shows they are always equal.

WORDS TO KNOW

substitute	replace a variable with a number
equivalent	equal for every value of the variable
justify	give a reason that shows something is true

1 ●○○

Substitute $a = 6$ into $5(a + 4)$ and $5a + 20$. Are the values equal?

HINT Replace a with 6 in each expression.

2 ●○○

Complete the table. Are the expressions equivalent?

HINT Substitute each value into each expression.

b	1	2	3
$7(b + 9)$			
$7b + 9$			

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Preview - the full worksheet and its answer key are at primeworksheet.com