Identifying Equivalent Expressions

Lesson 6-7

DATE TIME

Math Message

1 Cross out expressions in the name-collection box that are NOT equivalent. Record one equivalent expression that could be added to the name-collection box.

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$9(x + 1) + 3(x + 1)$	
$9x + 9 + 3x + 3$	$12x + 10 + 4 \div 2$
$7(x + 2) + 3$	$12x + 2$
$9x + 3x + 9 + 3$	$9x + 1 + 3x + 1$
$(30 - 18) + 10x + 2$	$12(x + 1)$

2 Explain how you determined whether an expression was equivalent to $9(x + 1) + 3(x + 1)$.

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3 Cyrus says $9(x + 1) + 3(x + 1)$ and $7(x + 2) + 3$ are equivalent expressions. He substituted 1 for x and found that they were both equal to 24. How can they both equal 24 and still not be equivalent expressions?

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For Problems 4–5, find the simplest form for each expression.

4 $7 + (5 - 3) * x + 1 + x$ Simplest form: _____

5 $x + 2.5x + b + 5x$ Simplest form: _____

6 Simplify the expressions below. Are they equivalent? _____

$2x + 4 * 3 + 3x + 8$ $4x + x + x + 20$

Explain. _____

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