Same Value, Every Time: Extra Practice

Equivalent expressions give the same value for every number. Simplify both to prove it. A test number can only catch a mismatch.

Name: _____ Date: _____

1. Is $3(x + 5)$ equivalent to $3x + 5$? Explain.

2. Is $8y - 3y + 2$ equivalent to $5y + 2$?

3. Is $-4(a - 2)$ equivalent to $-4a - 8$? Explain.

4. Is $2(3m + 1) + 2m$ equivalent to $8m + 2$?

5. Which are equivalent to $6 - 3x$? A. $3(2 - x)$ B. $-3(x - 2)$ C. $-3(x + 2)$

6. What number goes in the box? $4(x + \square) = 4x + 20$

7 Nia says $2x + 2$ and $4x$ are equivalent because both equal 4 when $x = 1$. Is she right?

8 Is $10 - 2(x - 3)$ equivalent to $16 - 2x$?