

Name _____

Date _____

Simplifying Linear Expressions - Independent Practice Worksheet

Complete all the problems.

1. Write an equivalent expression for $4(x + 7) - 9$
2. Write an equivalent expression for $(x + 6) - 5 + 9$
3. Write equivalent expressions for $7a + 21$.
4. Write equivalent expressions for $5a + 30$.
5. A rectangle is seven times as long as its width. One way to write an expression to find the perimeter would be $m + 7m + m + 7m$. Write the expression in two other ways.
6. A rectangle is five times as long as its width. One way to write an expression to find the perimeter would be $5d + 5d + d + d$. Write the expression in two other ways.
7. Mary says the two expressions $4(5a - 8) + 2a$ and $12a - 6$ are equivalent? Is she correct?
8. Jenny says the two expressions $7a - 4 + 3a - 6$ and $4a - 10$ are equivalent? Is she correct?
9. An equilateral triangle has a perimeter of $9x + 6$. What is the length of each side of the triangle?
10. An equilateral triangle has a perimeter of $15x + 3$. What is the length of each side of the triangle?

