Lesson 9.5 Practice: The Distributive Property with Variables

School Launch · Pre-Algebra · Unit 9: Variables and Expressions · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Use the distributive property and simplify: $-8(x + 2)$. EASY

2. Use the distributive property and simplify: $-5(x + 4)$. EASY

3. Use the distributive property and simplify: $-1(x + 7)$. EASY

4. Use the distributive property and simplify: $3(x + 4) - 4(x - 3)$. MEDIUM

5. Use the distributive property and simplify: $-5(x - 4) - 2(x - 4)$. MEDIUM

6. Use the distributive property and simplify: $-6(x - 1) - 4(x - 6)$. MEDIUM

7. Use the distributive property and simplify: $7(x - 5) - 6(x - 6)$. MEDIUM

8. Use the distributive property and simplify: $7(5x^2 + x - 2) + 3x$. HARD

9. Use the distributive property and simplify: $8(3x^2 + 9x - 1) + 6x$. HARD

10. Use the distributive property and simplify: $-2(3x^2 - 4x - 1) + 2x$. HARD