Unit 9 Quiz 1: Simplifying Expressions

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Write each expression in simplest form.**

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| --- | --- |
| 1. 8(m – 3) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. 2(a + b) + 3(a – b) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. -11(x + 4) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. -6x(3 + 2) – 3x² + 5x² = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. 7y – 3x + 18y + 3x = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. 14a – (-3a - 2) + 20a = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. 3m – 8m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. -12(m + 2) + 12m – (-24) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Area & Algebra**

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| **Use this figure to answer problems 9-10. Write each expression in simplest form.**  (3x + 4) meters  15 meters | 1. What is the perimeter of the rectangle? |
| 1. What is the area of the rectangle? |
| **Use this figure to answer problems 11-12. Write each expression in simplest form.**  x + 4    5x + 7 | 1. What is the perimeter of the rectangle? |
| 1. What is the area of the rectangle? |