Unit 4 Review: Worked Answers

Each problem solved the way the lesson does it.

Name: _____ Date: _____

1. From Lesson 1. Simplify 6x − 4 − 2x + 9
   - 6x + (−4) + (−2x) + 9.

   Answer: 4x + 5

2. From Lesson 2. Subtract (7a − 2) − (3a − 5)
   - 7a + (−2) + (−3a) + 5.

   Answer: 4a + 3

3. From Lesson 3. Simplify 2(3y − 4) − 3(y − 1)
   - Expand: 6y + (−8) + (−3y) + 3.

   Answer: 3y − 5

4. From Lesson 4. Factor 20m + 30
   - GCF 10. 20m ÷ 10 = 2m, 30 ÷ 10 = 3.

   Answer: 10(2m + 3)

5. From Lesson 4. Factor −8x + 12 by pulling out −4
   - −8x ÷ (−4) = 2x, 12 ÷ (−4) = −3.

   Answer: −4(2x − 3)

6. From Lesson 5. Simplify 1/2 x + 1/5 x
   - Common denominator: 5/10 x + 2/10 x.

   Answer: 7/10 x

7. From Lesson 5. Simplify 1/3(9p − 6) + 0.5p
   - Expand: 3p + (−2) + 0.5p.

   Answer: 3.5p − 2

8 From Lesson 6. Is $-2(x - 5)$ equivalent to $-2x - 10$? Explain.

- Expand: $-2x + 10$.

Answer: No. $-2(x - 5) = -2x + 10$.