Decimal Coefficients: Worked Answers

Each problem solved the way the lesson does it.

Name: _____ Date: _____

1. Simplify 0.4x + 1.2x
   - 0.4 + 1.2 = 1.6.

   Answer: 1.6x

2. Simplify 3.5y − 1.8y
   - 3.5y + (−1.8y). 3.5 − 1.8 = 1.7.

   Answer: 1.7y

3. Simplify 1.5a − 4a
   - 1.5a + (−4a). Different signs: 4 − 1.5 = 2.5, negative.

   Answer: −2.5a

4. Simplify 2.4m + 5 − 0.9m − 2.5
   - Sort: (2.4m + (−0.9m)) + (5 + (−2.5)).

   Answer: 1.5m + 2.5

5. Expand 2(0.3x − 1.5)
   - 2 × 0.3x + 2 × (−1.5).

   Answer: 0.6x − 3

6. Simplify −3(0.5y + 0.2) + 2y
   - Expand: (−1.5y) + (−0.6) + 2y.
   - Sort: ((−1.5y) + 2y) + (−0.6).

   Answer: 0.5y − 0.6

7. Simplify 4.25x − 1.5 + 0.75x + 3
   - Sort: (4.25x + 0.75x) + ((−1.5) + 3).

   Answer: 5x + 1.5

8 Simplify $-2.5 + 2(-3x + 4.1) - 1.5x$

- Expand: $(-2.5) + (-6x) + 8.2 + (-1.5x)$.
- Sort: $((-6x) + (-1.5x)) + ((-2.5) + 8.2)$.

Answer: $-7.5x + 5.7$