Fraction Coefficients: Worked Answers

Each problem solved the way the lesson does it.

Name: _____ Date: _____

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1 **Simplify 1/3 x + 1/3 x**

- Add the tops: 2/3.

Answer: 2/3 x

2 **Simplify 1/2 y + 1/4 y**

- Common denominator: 2/4 y + 1/4 y.

Answer: 3/4 y

3 **Simplify 3/5 m − 1/5 m**

- 3/5 m + (−1/5 m).

Answer: 2/5 m

4 **Simplify 5/6 a − 1/3 a**

- Common denominator: 5/6 a + (−2/6 a).

Answer: 1/2 a

5 **Simplify x/4 + x/2**

- x/4 is 1/4 x and x/2 is 2/4 x.

Answer: 3/4 x

6 **Simplify 2/3 p + 1 − 1/6 p + 1/2**

- Sort: (4/6 p + (−1/6 p)) + (1 + 1/2).

Answer: 1/2 p + 3/2 (or 1/2 p + 1 1/2)

7 **Simplify 1/2 x − x**

- x is 2/2 x: 1/2 x + (−2/2 x).

Answer: −1/2 x

8 Simplify −1/4 a + 1/3 b + 3/4 a − b

- Sort: ((−1/4 a) + 3/4 a) + (1/3 b + (−3/3 b)).

Answer: 1/2 a − 2/3 b