MATH 7 · UNIT 3, LESSON 1 · TILE 4 · ANSWER KEY, WORKED STEP BY STEP

Fractions, Decimals, and Mixed Numbers: Worked Answers

Each problem solved the way the lesson does it.

Name: _____ Date: _____

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1. **−3/8 + 1/8**
   - Same bottom. Add the tops: −3 + 1 = −2, so −2/8. Simplify.

   Answer: −1/4

2. **2/5 − 4/5**
   - Change: 2/5 + (−4/5). Tops: 2 + (−4) = −2.

   Answer: −2/5

3. **−1/2 + 3/4**
   - Common denominator 4: −2/4 + 3/4. Tops: −2 + 3 = 1.

   Answer: 1/4

4. **−1.5 + (−2.25)**
   - Same sign: 1.5 + 2.25 = 3.75, negative.

   Answer: −3.75

5. **3.2 − 5.7**
   - Change: 3.2 + (−5.7). Different: 5.7 − 3.2 = 2.5, negative wins.

   Answer: −2.5

6. **−2 1/4 + 3/4**
   - Improper: −9/4 + 3/4. Tops: −9 + 3 = −6, so −6/4. Simplify.

   Answer: −3/2 (that is −1 1/2)

7. **−1 1/3 − 2/3**
   - Change and improper: −4/3 + (−2/3). Tops: −4 + (−2) = −6, so −6/3.

   Answer: −2

8 −5/6 + 1/2

- Common denominator 6: −5/6 + 3/6. Tops: −5 + 3 = −2, so −2/6. Simplify.

Answer: −1/3