Name _____

Add and Subtract Mixed Numbers with Unlike Denominators

I Can add and subtract mixed numbers with unlike denominators.

⊞ UNLOCK the Problem 🌎 Real World

Denise mixed $1\frac{4}{5}$ ounces of blue paint with $2\frac{1}{10}$ ounces of yellow paint. How many ounces of paint did Denise mix?

- What operation should you use to solve the problem?

  _____

- Do the fractions have the same denominator?

  _____

Add. $1\frac{4}{5} + 2\frac{1}{10}$

To find the sum of mixed numbers with unlike denominators, you can use a common denominator.

STEP 1 Estimate the sum. _____

STEP 2 Find a common denominator. Use the common denominator to write equivalent fractions with like denominators.

STEP 3 Add the fractions. Then add the whole numbers.

$$1\frac{4}{5} = \boxed{}$$

$$+\ 2\frac{1}{10} = +\ \boxed{}$$
$$\overline{\qquad\qquad}$$

So, Denise mixed _____ ounces of paint.

Math Talk

MTR 4.1 Engage in discussions on mathematical thinking.

How did you find the common denominator?

1. **MTR** Explain how you know whether your answer is reasonable.

   _____

   _____

2. What other common denominator could you have used? _____

   _____

Examples

Subtract. $4\frac{5}{6} - 2\frac{3}{4}$

You can also use a common denominator to find the difference of mixed numbers with unlike denominators.

STEP 1 Estimate the difference. _____

STEP 2 Find a common denominator. Use the common denominator to write equivalent fractions with like denominators.

STEP 3 Subtract the fractions. Subtract the whole numbers.

$$4\frac{5}{6} = \boxed{}$$

$$-2\frac{3}{4} = -\boxed{}$$

$$\boxed{}$$

3. **MTR** Explain how you know whether your answer is reasonable.

_____

_____

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1. Use a common denominator to write equivalent fractions with like denominators and then find the sum.

$$7\frac{2}{5} = \boxed{}$$

$$+4\frac{3}{4} = +\boxed{}$$

$$\boxed{}$$

Find the sum.

2. $2\frac{3}{4} + 3\frac{3}{10}$

3. $5\frac{3}{4} + 1\frac{1}{3}$

✓ 4. $3\frac{4}{5} + 2\frac{3}{10}$