Name _____

Add and Subtract Fractions with Unlike Denominators

Florida's B.E.S.T.
- **Fractions** 5.FR.2.1
- **Algebraic Thinking** 5.AR.1.2
- **Mathematical Thinking & Reasoning** MTR.1.1, MTR.2.1, MTR.3.1, MTR.4.1,MTR.5.1, MTR.6.1, MTR.7.1

I Can use a common denominator to add and subtract fractions with unlike denominators.

CONNECT You can use what you have learned about common denominators to add or subtract fractions with unlike denominators.

UNLOCK the Problem Real World

Malia bought shell beads and glass beads to weave into designs in her baskets. She bought $\frac{1}{4}$ pound of shell beads and $\frac{3}{8}$ pound of glass beads. How many pounds of beads did she buy?

- Underline the question you need to answer.
- Draw a circle around the information you will use.

Add. $\frac{1}{4} + \frac{3}{8}$

Find a common denominator by multiplying the denominators.

$4 \times 8 =$ _____ ← common denominator

Use the common denominator to write equivalent fractions with like denominators. Then add.

$$\frac{1}{4} = \frac{1 \times \square}{4 \times \square} = \square$$

$$+\frac{3}{8} = +\frac{3 \times \square}{8 \times \square} = + \square$$

$$\square \text{ or } \square$$

So, Malia bought _____ pound of beads.

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

_____

_____

Example

When subtracting two fractions with unlike denominators, follow the same steps you follow when adding two fractions. However, instead of adding the fractions, subtract.

Subtract. $\frac{9}{10} - \frac{2}{5}$

$\frac{9}{10} =$

$-\frac{2}{5} =$

Describe the steps you took to solve the problem.

2. MTR Explain how you know whether your answer is reasonable.

Share and Show

Math Board

Find the sum or difference.

1. $\frac{5}{12} + \frac{1}{3}$

2. $\frac{2}{5} + \frac{3}{7}$

3. $\frac{1}{6} + \frac{3}{4}$

4. $\frac{3}{4} - \frac{1}{8}$

5. $\frac{1}{4} - \frac{1}{7}$

6. $\frac{9}{10} - \frac{1}{4}$

Math Talk

MTR 6.1 Assess reasonableness of solutions.

Why is it important to check your answer for reasonableness?