Name _____

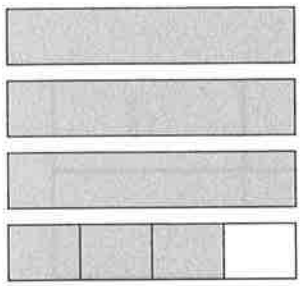
# Explore Subtracting Mixed Numbers with Unlike Denominators

R 6-10 RETEACH

You can draw models to help subtract mixed numbers with unlike denominators.

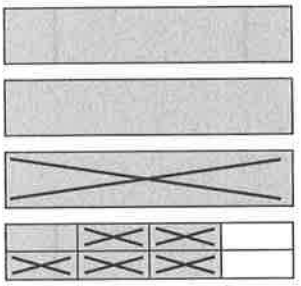
Subtract $3\frac{3}{4} - 1\frac{5}{8}$.

Draw models for each mixed number.



$3\frac{3}{4}$

Find the LCD fractions.
Redraw the model to show eighths.
To find the difference, count the ones, then count the eights.



$3\frac{3}{4} - 1\frac{5}{8}$

↓

$3\frac{6}{8} - 1\frac{5}{8} = 2\frac{1}{8}$

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Complete. Find each difference. Write your answer in simplest form.

**1.** $2\frac{4}{5} - 1\frac{7}{10}$

↓ ↓

$2\frac{\square}{\square} - 1\frac{\square}{\square} = 1\frac{\square}{10}$

**2.** $2\frac{5}{8} - 1\frac{1}{4}$

↓ ↓

$\square\frac{\square}{\square} - \square\frac{\square}{\square} =$ _____

**3.** $3\frac{4}{5} - 1\frac{1}{3}$

↓ ↓

$\square\frac{\square}{\square} - \square\frac{\square}{\square} =$ _____

Subtract. You may draw models. Write your answer in simplest form.

**4.** $4\frac{7}{16} - 1\frac{1}{4} =$ _____

**5.** $3\frac{1}{2} - 1\frac{3}{10} =$ _____

**6.** $2\frac{5}{6} - 2\frac{3}{4} =$ _____

**7.** $3\frac{7}{12} - 2\frac{1}{6} =$ _____

**8.** $4\frac{2}{3} - 2\frac{1}{2} =$ _____

**9.** $3\frac{3}{4} - 3\frac{1}{3} =$ _____

**10.** $4\frac{4}{5} - 1\frac{3}{10} =$ _____

**11.** $6\frac{1}{2} - 6\frac{3}{8} =$ _____

**12.** $7\frac{2}{3} - 5\frac{1}{5} =$ _____