NAME:

Math PATHWAYS&PITFALLS

Purpose

To find sums greater or less than 1 when adding fractions with unlike denominators

Math Words

mixed number	We call $2\frac{1}{2}$ a mixed number because it uses both a whole number and a fraction to describe one value.
greater or less than 1	$2\frac{1}{3}$ is greater than 1. $\frac{4}{5}$ is less than 1.
unlike denominators	The fractions $\frac{1}{7}$ and $\frac{1}{8}$ have unlike denominators. Their denominators are different.

Starter Problem

Think about the meaning. Solve.

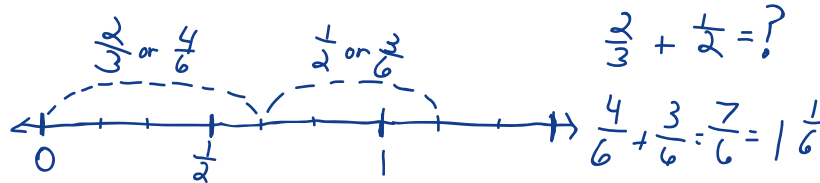$$\frac{2}{3} + \frac{1}{2} = \underline{\hspace{2cm}}$$

NAME:

Think about the meaning. Solve.

$$\frac{2}{3} + \frac{1}{2} = \underline{\hspace{2cm}}$$

Student Thinking

Yon

The sum has to be greater than 1. Both fractions can be made into sixths, so that's my common denominator. Four sixths plus three sixths is equal to seven sixths. I made it into a mixed number. It's one and one sixth.

OK

$$\frac{2}{3} + \frac{1}{2} = ?$$
$$\frac{4}{6} + \frac{3}{6} = \frac{7}{6} = 1\frac{1}{6}$$

Scott

I added 2 and 1, then I added 3 and 2. It's three fifths. That's in lowest terms, so it's the answer.

Pitfall

$$\frac{2}{3} + \frac{1}{2} = \frac{3}{5}$$

Things to Remember

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STOP

NAME:

Our Turn

Find the sum. You may use a number line or other drawing to help you.

1. $\dfrac{5}{6} + \dfrac{1}{3} =$ _____

2. $\dfrac{3}{4} + \dfrac{1}{3} =$ _____

3. $\dfrac{2}{5}$

    $+ \ \dfrac{3}{10}$

    _____

NAME:

My Turn

Find the sum. You may use a number line or other drawing to help you.

1. $\dfrac{3}{4} + \dfrac{7}{8} =$ _____

2. $\dfrac{2}{3} + \dfrac{3}{4} =$ _____

3. $\begin{array}{r} \dfrac{3}{4} \\[4pt] + \ \dfrac{1}{2} \\ \hline \end{array}$

NAME:

Multiple Choice Mini Lesson

Fill in the circle next to the answer you choose.

1. $\frac{1}{2} + \frac{3}{4} = $ _____

    ○ $\frac{2}{3}$ ○ $\frac{3}{4}$ ○ $1\frac{1}{4}$ ○ $1\frac{1}{2}$

2. $\frac{1}{3} + \frac{2}{3} = $ _____

    ○ $\frac{1}{2}$ ○ $1\frac{1}{3}$ ○ $\frac{5}{6}$ ○ 1

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Math Pathways & Pitfalls® ✳ Unit 4 ✳ Lesson 8

NAME:

Writing Task Mini Lesson

Explain how you know that $\frac{7}{8} + \frac{3}{4} = 1\frac{5}{8}$. You may draw a picture on the back to help you explain.

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