

*** Due Wednesday ***

Rename Fractions and Mixed Numbers

A mixed number is made up of a whole number and a fraction. You can use multiplication and addition to rename a mixed number as a fraction greater than 1.

1. Rename $2\frac{5}{6}$ as a fraction.

First, multiply the denominator, or the number of parts in the whole, by the whole number.

$$6 \times 2 = 12$$

Then, add the numerator to your product.

$$12 + 5 = 17$$

$$\text{So, } 2\frac{5}{6} = \frac{17}{6}$$

$$\begin{array}{c} \textcircled{2} + 5 \\ \downarrow \\ 2 \times 6 = \frac{17}{6} \end{array}$$

total number of parts
number of parts in the whole

OR

* Change your whole into fractions and add!

$$\begin{array}{c} 2\frac{5}{6} \\ \downarrow \quad \downarrow \\ \frac{6}{6} + \frac{6}{6} + \frac{5}{6} = \frac{6+6+5}{6} = \frac{17}{6} \end{array}$$

You can use division to write a fraction greater than 1 as a mixed number.

2. Rename $\frac{16}{3}$ as a mixed number.

To rename $\frac{16}{3}$ as a mixed number, divide the numerator by the denominator.

Use the quotient and remainder to write a mixed number.

$$\text{So, } \frac{16}{3} = 5\frac{1}{3}$$

* Look for wholes!

$$\begin{array}{c} 5 \\ 3 \overline{) 16} \\ \underline{- 15} \\ 1 \end{array}$$

OR $\frac{16}{3} =$

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

Write the mixed number as a fraction. Use either method!

- 1. $3\frac{2}{3} =$ _____
- 2. $4\frac{3}{5} =$ _____
- 3. $4\frac{3}{8} =$ _____
- 4. $2\frac{1}{6} =$ _____

Write the fraction as a mixed number. Use either method!

- 5. $\frac{32}{5} =$ _____
- 6. $\frac{19}{3} =$ _____
- 7. $\frac{15}{4} =$ _____
- 8. $\frac{51}{10} =$ _____

Add and Subtract Mixed Numbers

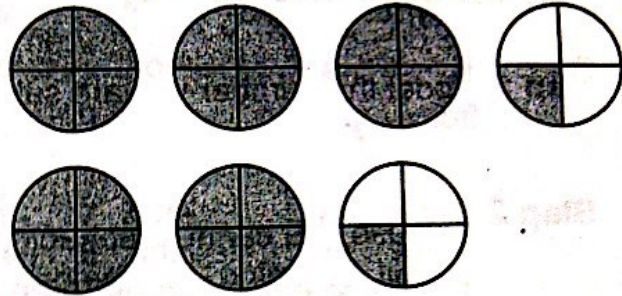
*** DUE THURSDAY ***

Find the sum. $3\frac{1}{4} + 2\frac{1}{4}$

Add the whole number and fraction parts.

- Add the whole numbers: $3 + 2 = 5$
- Add the fractions: $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$

Write the sum as a mixed number, so the fractional part is less than 1. $3\frac{1}{4} + 2\frac{1}{4} = 5\frac{2}{4}$

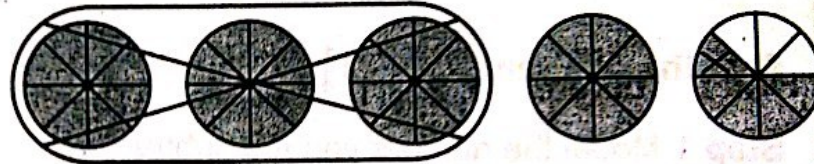


Find the difference. $4\frac{5}{8} - 3\frac{1}{8}$

Subtract the fraction and the whole number parts.

- Subtract the fractions: $\frac{5}{8} - \frac{1}{8} = \frac{4}{8}$
- Subtract the whole numbers: $4 - 3 = 1$

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



Find the sum or difference. Remember to fix improper fractions!! 😊

$$\begin{array}{r} 1. \quad 3\frac{4}{5} \\ + 4\frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 7\frac{2}{3} \\ - 3\frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 4\frac{7}{12} \\ + 6\frac{5}{12} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 12\frac{3}{4} \\ - 6\frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 2\frac{3}{8} \\ + 8\frac{1}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 11\frac{9}{10} \\ - 3\frac{7}{10} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 7\frac{3}{5} \\ + 4\frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 8\frac{3}{6} \\ - 3\frac{1}{6} \\ \hline \end{array}$$

*** DUE THURSDAY ***

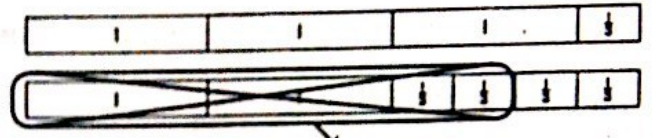
Subtraction with Renaming

Fraction strips can help you subtract mixed numbers or subtract a mixed number from a whole number.

Find the difference. $3\frac{1}{3} - 2\frac{2}{3}$

Step 1 Model the number you are subtracting from, $3\frac{1}{3}$.

Step 2 Because you cannot subtract $\frac{2}{3}$ from $\frac{1}{3}$ without renaming, change one of the 1 strips to three $\frac{1}{3}$ strips. Then subtract by crossing out two wholes and two $\frac{1}{3}$ strips.

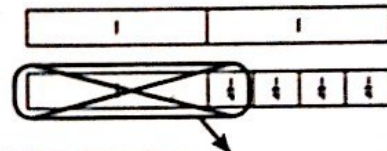


So, $3\frac{1}{3} - 2\frac{2}{3} = \frac{2}{3}$

Find the difference. $2 - 1\frac{1}{4}$

Step 1 Model the number you are subtracting from, 2.

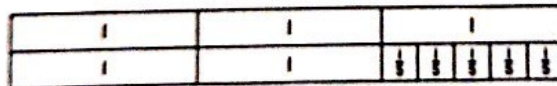
Step 2 Because you cannot subtract $\frac{1}{4}$ from 1 without renaming, change one of the 1 strips to four $\frac{1}{4}$ strips. Then subtract by crossing out one whole and one $\frac{1}{4}$ strip.



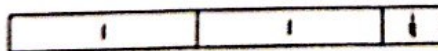
So, $2 - 1\frac{1}{4} = \frac{3}{4}$

Find the difference.

1. $3 - 2\frac{2}{5} = \underline{\hspace{2cm}}$



2. $2\frac{1}{4} - 1\frac{3}{4} = \underline{\hspace{2cm}}$



3.
$$\begin{array}{r} 3\frac{3}{5} \\ - 2\frac{4}{5} \\ \hline \end{array}$$

4.
$$\begin{array}{r} 3\frac{1}{12} \\ - 2\frac{11}{12} \\ \hline \end{array}$$

5.
$$\begin{array}{r} 4\frac{5}{8} \\ - 2\frac{7}{8} \\ \hline \end{array}$$

Multiples of Unit Fractions *DUE Friday*

A unit fraction is a fraction with a numerator of 1. You can write a fraction as the product of a whole number and a unit fraction.

Write $\frac{7}{10}$ as the product of a whole number and a unit fraction.

Write $\frac{7}{10}$ as the sum of unit fractions.

$$\frac{7}{10} = \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$$

Use multiplication to show repeated addition.

$$\frac{7}{10} = 7 \times \frac{1}{10}$$

$$\text{So, } \frac{7}{10} = 7 \times \frac{1}{10}$$

The product of a number and a counting number is a multiple of the number. You can find multiples of unit fractions.

List the next 4 multiples of $\frac{1}{8}$.

Make a table and use repeated addition.

$1 \times \frac{1}{8}$	$2 \times \frac{1}{8}$	$3 \times \frac{1}{8}$	$4 \times \frac{1}{8}$	$5 \times \frac{1}{8}$
$\frac{1}{8}$	$\frac{1}{8} + \frac{1}{8}$	$\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$	$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$	$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$
$\frac{1}{8}$	$\frac{2}{8}$	$\frac{3}{8}$	$\frac{4}{8}$	$\frac{5}{8}$

The next 4 multiples of $\frac{1}{8}$ are $\frac{2}{8}$, $\frac{3}{8}$, $\frac{4}{8}$, and $\frac{5}{8}$.

Write the fraction as the product of a whole number and a unit fraction.

1. $\frac{2}{5} =$ _____

2. $\frac{5}{12} =$ _____

3. $\frac{7}{2} =$ _____

List the next four multiples of the unit fraction.

4. $\frac{1}{4}$, _____, _____, _____, _____

5. $\frac{1}{6}$, _____, _____, _____, _____

Multiples of Fractions

*** Due Friday ***

You have learned to write multiples of unit fractions. You can also write multiples of other fractions.

Write the next 4 multiples of $\frac{2}{5}$.

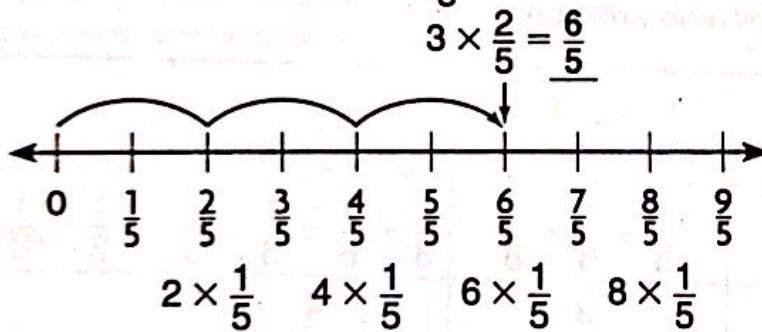
Make a table.

$1 \times \frac{2}{5}$	$2 \times \frac{2}{5}$	$3 \times \frac{2}{5}$	$4 \times \frac{2}{5}$	$5 \times \frac{2}{5}$
$\frac{2}{5}$	$\frac{2}{5} + \frac{2}{5}$	$\frac{2}{5} + \frac{2}{5} + \frac{2}{5}$	$\frac{2}{5} + \frac{2}{5} + \frac{2}{5} + \frac{2}{5}$	$\frac{2}{5} + \frac{2}{5} + \frac{2}{5} + \frac{2}{5} + \frac{2}{5}$
$\frac{2}{5}$	$\frac{4}{5}$	$\frac{6}{5}$	$\frac{8}{5}$	$\frac{10}{5}$

So, the next 4 multiples of $\frac{2}{5}$ are $\frac{4}{5}$, $\frac{6}{5}$, $\frac{8}{5}$, and $\frac{10}{5}$.

Write $3 \times \frac{2}{5}$ as the product of a whole number and a unit fraction.

Use a number line. Make three jumps of $\frac{2}{5}$.



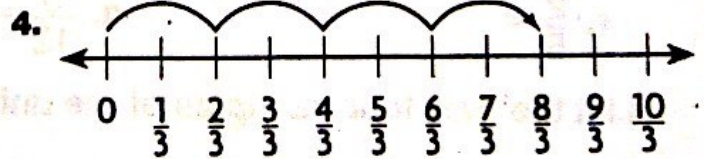
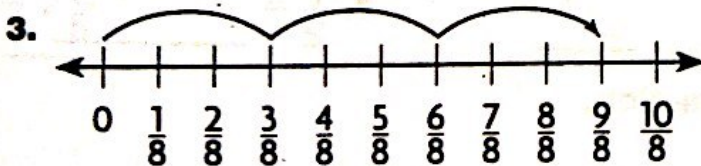
So, $3 \times \frac{2}{5} = \frac{6}{5}$, or $6 \times \frac{1}{5}$.

List the next four multiples of the fraction.

1. $\frac{3}{4}$, _____, _____, _____, _____

2. $\frac{5}{6}$, _____, _____, _____, _____

Write as the product of a whole number and a unit fraction.



$3 \times \frac{3}{8} =$ _____

$4 \times \frac{2}{3} =$ _____