

WEEKLY  
MATH  
HOMEWORK

January 6 - 9



Due WEDNESDAY: "Rename Fractions & Mixed Numbers"

Due THURSDAY: "Add & Subtract Mixed Numbers" AND  
"Subtraction with Renaming"

Due FRIDAY: "Multiples of Unit Fractions" AND  
"Multiples of Fractions"

NO Multiplication Timed Test on Friday!  
Practice your facts for next week's timed test!!!!

Name \_\_\_\_\_

Parent Signature \_\_\_\_\_

Name \_\_\_\_\_

**\*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.

**Ex:** Rename  $2\frac{5}{6}$  as a fraction.

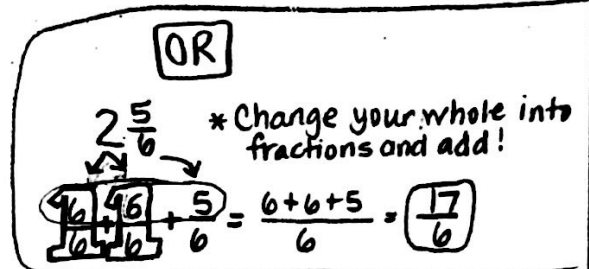
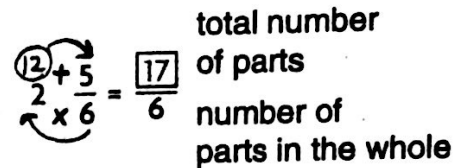
First, multiply the denominator, or the number of parts in the whole, by the whole number.

$$6 \times 2 = 12$$

Then, add the numerator to your product.

$$12 + 5 = 17$$

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



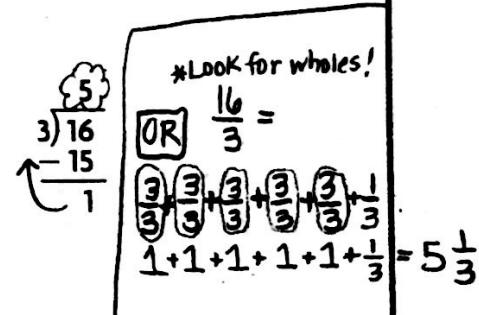
You can use division to write a fraction greater than 1 as a mixed number.

**Ex:** 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.

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



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.  $\frac{51}{10} =$  \_\_\_\_\_

Name \_\_\_\_\_

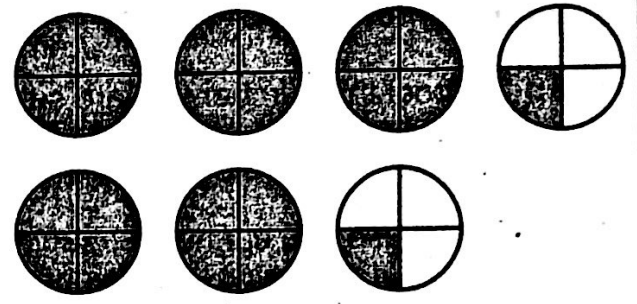
# Add and Subtract Mixed Numbers

## \* 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:  $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$

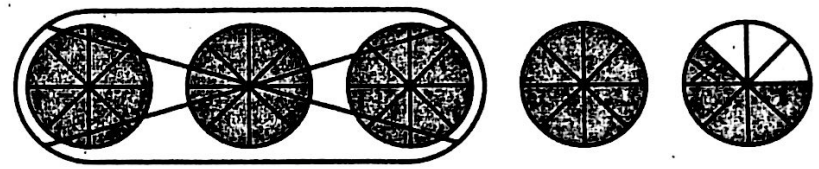


Write the sum as a mixed number, so the fractional part is less than 1.  $3\frac{1}{4} + 2\frac{1}{4} = 5\frac{2}{4}$

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!!

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

2.  $7\frac{2}{3} - 3\frac{1}{3}$

3.  $4\frac{7}{12} + 6\frac{5}{12}$

4.  $12\frac{3}{4} - 6\frac{1}{4}$

5.  $2\frac{3}{8} + 8\frac{1}{8}$

6.  $11\frac{9}{10} - 3\frac{7}{10}$

7.  $7\frac{3}{5} + 4\frac{3}{5}$

8.  $8\frac{3}{6} - 3\frac{1}{6}$

Name \_\_\_\_\_

**\* DUE THURSDAY \***

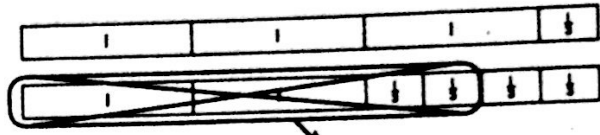
# Subtraction with Renaming

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.

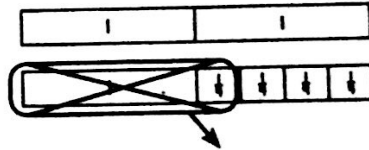


So,  $3\frac{1}{3} - 2\frac{2}{3} = \frac{2}{3}$

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

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

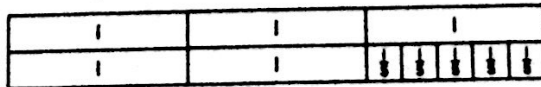
**Step 2** Because you cannot subtract  $\frac{1}{4}$  from 1 without renaming, change one of the 1 strips to four  $\frac{1}{4}$  strips. Then subtract by crossing out one whole and one  $\frac{1}{4}$  strip.



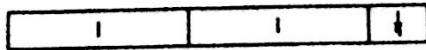
So,  $2 - 1\frac{1}{4} = \frac{3}{4}$

**Find the difference.**

1.  $3 - 2\frac{2}{5} =$  \_\_\_\_\_



2.  $2\frac{1}{4} - 1\frac{3}{4} =$  \_\_\_\_\_



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  $\frac{2}{5}$ .

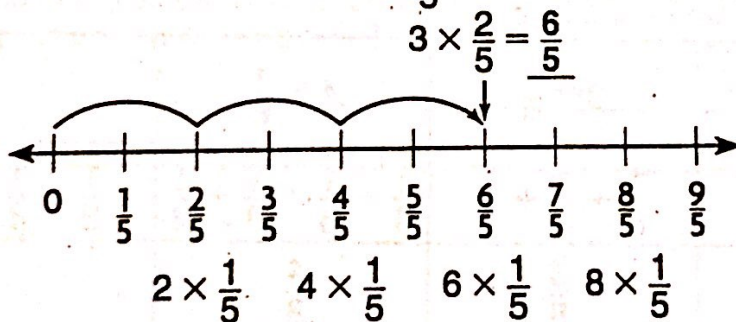
Make a table.

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

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  $\frac{2}{5}$ .



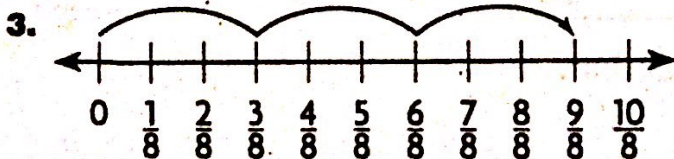
So,  $3 \times \frac{2}{5} = \frac{6}{5}$ , or  $6 \times \frac{1}{5}$ .

List the next four multiples of the fraction.

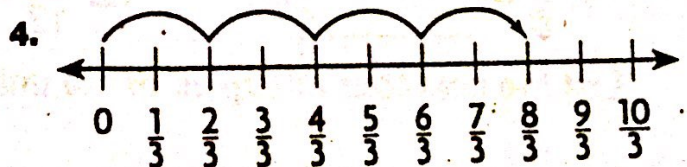
1.  $\frac{3}{4}$ , \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

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

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



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



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