Weekly
Math
Homework

November 17 - 21

DUE TUESDAY: *Generate Equivalent Fractions* page
DUE THURSDAY: *Common Denominators* page
DUE FRIDAY: *Compare Fractions Using Benchmarks* and
Compare Fractions pages

My timed test on FRIDAY is on the _____ facts!

Class website: http://mrsbucksmathclass.weebly.com

Name _____

Parent Signature_____

Generate Equivalent Fractions

Write an equivalent fraction for $\frac{4}{5}$.

Step 1 Choose a whole number, like 2.
Step 2 Create a fraction using 2 as the numerator and denominator: $\frac{2}{2}$. This fraction is equal to 1. You can multiply a number by 1 without changing the value of the number.
Step 3 Multiply $\frac{4}{5}$ by $\frac{2}{2}$: $\frac{4 \times 2}{5 \times 2} = \frac{8}{10}$.
So, $\frac{4}{5}$ and $\frac{8}{10}$ are equivalent.

Write another equivalent fraction for $\frac{4}{5}$.

Step 1 Choose a different whole number, like 20.
Step 2 Create a fraction using 20 as the numerator and denominator: $\frac{20}{20}$.
Step 3 Multiply $\frac{4}{5}$ by $\frac{20}{20}$: $\frac{4 \times 20}{5 \times 20} = \frac{80}{100}$.
So, $\frac{4}{5}$ and $\frac{80}{100}$ are equivalent.

Write two equivalent fractions. (see examples above for help!)

1. $\frac{2}{6}$

2. $\frac{4}{10}$

_____

_____

3. $\frac{3}{8}$

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

_____

_____

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Common Denominators

A **common denominator** is a common multiple of the denominators of two or more fractions.

Write $\frac{2}{3}$ and $\frac{3}{4}$ as a pair of fractions with common denominators.

Step 1 Identify the denominators of $\frac{2}{3}$ and $\frac{3}{4}$.	$\frac{2}{3}$ and $\frac{3}{4}$ The denominators are 3 and 4.
Step 2 List multiples of 3 and 4. Circle common multiples.	3: 3, 6, 9, ⑫, 15, 18 4: 4, 8, ⑫, 16, 20 12 is a common multiple of 3 and 4.
Step 3 Rewrite $\frac{2}{3}$ as a fraction with a denominator of 12.	$\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$
Step 4 Rewrite $\frac{3}{4}$ as a fraction with a denominator of 12.	$\frac{3}{4} = \frac{3 \times 3}{4 \times 3} = \frac{9}{12}$
So, you can rewrite $\frac{2}{3}$ and $\frac{3}{4}$ as $\frac{8}{12}$ and $\frac{9}{12}$.	

Write the pair of fractions as a pair of fractions with a common denominator.

1. $\frac{1}{2}$ and $\frac{1}{3}$

2. $\frac{2}{4}$ and $\frac{5}{8}$

3. $\frac{1}{2}$ and $\frac{3}{5}$

4. $\frac{1}{4}$ and $\frac{5}{6}$

5. $\frac{2}{5}$ and $\frac{2}{3}$

6. $\frac{4}{5}$ and $\frac{7}{10}$

Name ___*Due Friday!*___

Compare Fractions Using Benchmarks

A **benchmark** is a known size or amount that helps you understand a different size or amount. You can use $\frac{1}{2}$ as a benchmark.

Sara reads for $\frac{3}{6}$ hour every day after school. Connor reads for $\frac{2}{3}$ hour. Who reads for a longer amount of time?

**Compare the fractions.** $\frac{3}{6}$ ⬤ $\frac{2}{3}$

Step 1 Divide one circle into 6 equal parts. Divide another circle into 3 equal parts.

Step 2 Shade $\frac{3}{6}$ of the first circle. How many parts will you shade? **3 parts**

Step 3 Shade $\frac{2}{3}$ of the second circle. How many parts will you shade? **2 parts**

Step 4 Compare the shaded parts of each circle. Half of Sara's circle is shaded. More than half of Connor's circle is shaded.
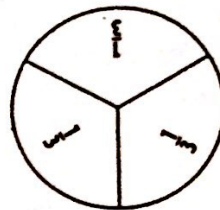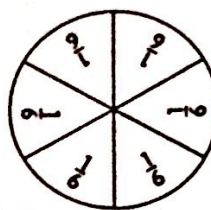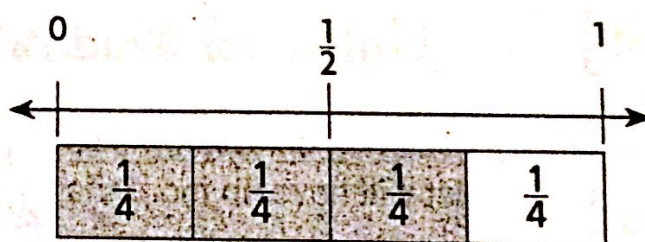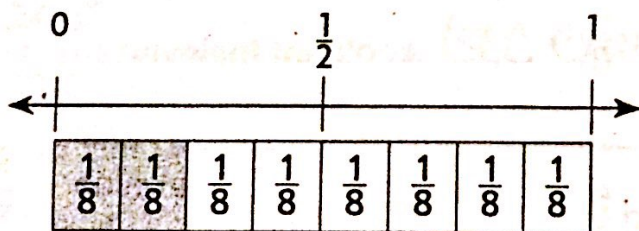
Sara   Connor
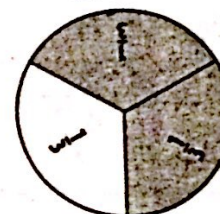
$\frac{3}{6}$ is less than $\frac{2}{3}$. $\frac{3}{6}$ ⟨<⟩ $\frac{2}{3}$

So, **Connor** reads for a longer amount of time.

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1. Compare $\frac{2}{8}$ and $\frac{3}{4}$. Write < or >.

0 .... $\frac{1}{2}$ 1   0 .... $\frac{1}{2}$ 1

| $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ | $\frac{1}{8}$ |

| $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ |

$\frac{2}{8}$ ◯ $\frac{3}{4}$

Compare. Write < or >.

2. $\frac{1}{4}$ ◯ $\frac{8}{10}$ **3.** $\frac{7}{8}$ ◯ $\frac{1}{3}$ **4.** $\frac{5}{12}$ ◯ $\frac{1}{2}$

5. $\frac{2}{8}$ ◯ $\frac{8}{12}$ **6.** $\frac{4}{6}$ ◯ $\frac{4}{8}$ **7.** $\frac{7}{12}$ ◯ $\frac{2}{4}$

Name ***Due Friday!***

Compare Fractions

Theo filled a beaker $\frac{2}{4}$ full with water. Angelica filled a beaker $\frac{3}{8}$ full with water. Whose beaker has more water?

Compare $\frac{2}{4}$ and $\frac{3}{8}$.

Step 1 Divide one beaker into 4 equal parts.
Divide another beaker into 8 equal parts.

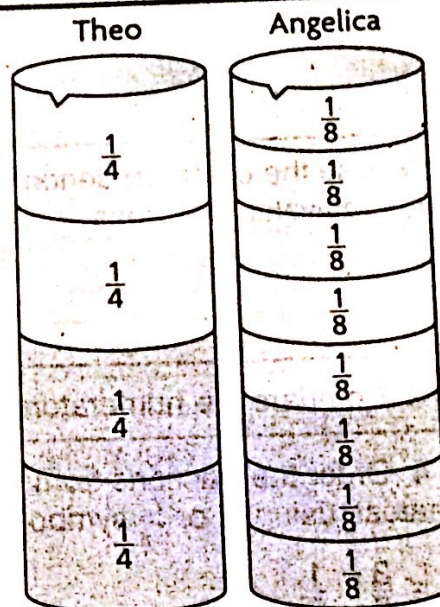**Step 2** Shade $\frac{2}{4}$ of the first beaker.

Step 3 Shade $\frac{3}{8}$ of the second beaker.

Step 4 Compare the shaded parts of each beaker. Half of Theo's beaker is shaded. Less than half of Angelica's beaker is shaded.
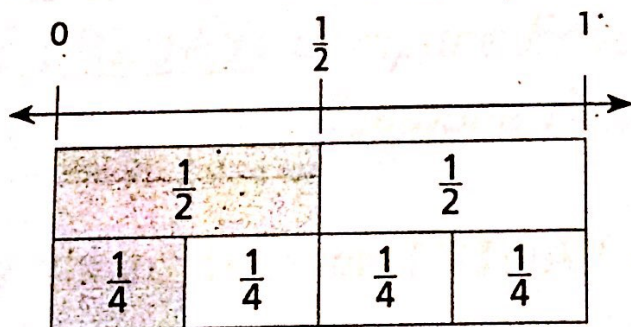
$\frac{2}{4}$ is greater than $\frac{3}{8}$.

$\frac{2}{4}$ ⊃ $\frac{3}{8}$
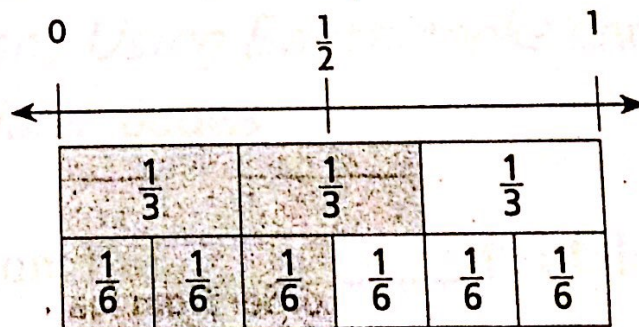
So, __Theo's__ beaker has more water.

1. Compare $\frac{1}{2}$ and $\frac{1}{4}$.

Which is greater? _____

2. Compare $\frac{2}{3}$ and $\frac{3}{6}$.

Which is less? _____

Compare. Write <, >, or =.

3. $\frac{1}{2}$ ◯ $\frac{3}{4}$

4. $\frac{6}{12}$ ◯ $\frac{5}{8}$

5. $\frac{2}{3}$ ◯ $\frac{4}{6}$

6. $\frac{3}{8}$ ◯ $\frac{1}{4}$

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