Worksheet
Fraction Equivalence

**Objective:** Understand fraction equivalence.

**Directions:** Show fraction equivalence using fraction tiles.

1. How many 1/12 bars are equivalent to 1/6?

   ![Fraction tiles](image1)

   Write an equivalent fraction: _________________

2. How many 1/12 bars are equivalent to 1/4?

   ![Fraction tiles](image2)

   Write an equivalent fraction: _________________
3. How many $\frac{1}{10}$ bars are equivalent to $\frac{1}{5}$?

Write an equivalent fraction: ______________________

4. How many $\frac{1}{12}$ bars are equivalent to $\frac{1}{2}$?

Write an equivalent fraction: ______________________

5. How many $\frac{1}{6}$ bars are equivalent to 1 whole?

Write an equivalent fraction: ______________________

6. How many $\frac{1}{8}$ bars are equivalent to $\frac{1}{2}$?

Write an equivalent fraction: ______________________
7. How many $\frac{1}{4}$ bars are equivalent to $\frac{1}{2}$?

Write an equivalent fraction: ________________

8. How many $\frac{1}{6}$ bars are equivalent to $\frac{1}{2}$?

Write an equivalent fraction: ________________

9. How many $\frac{1}{6}$ bars are equivalent to $\frac{1}{3}$?

Write an equivalent fraction: ________________

10. How many $\frac{1}{6}$ bars are equivalent to 1 whole?

Write an equivalent fraction: ________________
Worksheet

Identifying Equivalent Fractions

**Objective:** Determine whether two fractions are equivalent with pictures and numerals.

**Directions:** Label these fractions. Draw a line between the fractions that are equivalent.

_____ is equivalent to _______.

_____ is equivalent to _______.

_____ is equivalent to _______.

_____ is equivalent to _______.
_______ is equivalent to _______.

_______ is equivalent to _______.

_______ is equivalent to _______.

_______ is equivalent to _______.
______ is equivalent to _______.

______ is equivalent to _______.

______ is equivalent to _______.

______ is equivalent to _______.
____ is equivalent to ______.  

____ is equivalent to ______.
Worksheet

Making Equivalent Fractions

**Objective:** Given one fraction, generate an equivalent fraction using models.

**Directions:** Shade the blank fraction circle to make an equivalent fraction. Name the fractions.

_____ is equivalent to _____.

_____ is equivalent to _____.

_____ is equivalent to _____.

_____ is equivalent to _____.

_____ is equivalent to _____.
_______ is equivalent to _______.

_______ is equivalent to _______.

_______ is equivalent to _______.

_______ is equivalent to _______.

_______ is equivalent to _______.

_______ is equivalent to _______.
Worksheet

Finding Equivalent Fractions #1

Objective: Given one fraction, tell whether a second fraction is equivalent or not equivalent.

Directions:
1. Look at the two fractions.
2. Check to see whether they are equivalent.
3. Write “Equivalent” or “Not Equivalent” for each pair of fractions.

<table>
<thead>
<tr>
<th>Fraction 1</th>
<th>Fraction 2</th>
<th>Show Your Work</th>
<th>Equivalent or Not Equivalent?</th>
</tr>
</thead>
<tbody>
<tr>
<td>(\frac{1}{2})</td>
<td>(\frac{2}{3})</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(\frac{1}{4})</td>
<td>(\frac{2}{8})</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(\frac{2}{3})</td>
<td>(\frac{6}{9})</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(\frac{3}{4})</td>
<td>(\frac{5}{12})</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fraction 1</td>
<td>Fraction 2</td>
<td>Show Your Work</td>
<td>Equivalent or Not Equivalent?</td>
</tr>
<tr>
<td>------------</td>
<td>------------</td>
<td>----------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>( \frac{2}{4} )</td>
<td>( \frac{6}{12} )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>( \frac{1}{6} )</td>
<td>( \frac{3}{8} )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>( \frac{1}{3} )</td>
<td>( \frac{2}{6} )</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Worksheet

Finding Equivalent Fractions #2

Objective: Given one fraction, identify an equivalent fraction without using pictures.

Directions:
1. Choose a fraction that you think is equivalent to the fraction in the first column.
2. Use the equivalent fraction rule to check whether the fractions are equivalent.
3. Repeat until you have found a pair of equivalent fractions for each problem.

<table>
<thead>
<tr>
<th>Fraction</th>
<th>Pick the Equivalent Fraction</th>
<th>Show Your Work</th>
</tr>
</thead>
</table>
| \( \frac{1}{2} \) | \( \frac{2}{4} \) \( \frac{4}{8} \) \( \frac{3}{6} \) \( \frac{5}{10} \) | _____ is equivalent to _____.
| \( \frac{1}{4} \) | \( \frac{2}{6} \) \( \frac{1}{3} \) \( \frac{2}{5} \) \( \frac{7}{8} \) | _____ is equivalent to _____.
| \( \frac{2}{3} \) | \( \frac{1}{5} \) \( \frac{3}{9} \) \( \frac{2}{4} \) \( \frac{9}{10} \) \( \frac{4}{6} \) | _____ is equivalent to _____.
| \( \frac{3}{4} \) | \( \frac{9}{12} \) \( \frac{3}{5} \) \( \frac{6}{7} \) \( \frac{1}{2} \) \( \frac{5}{10} \) | _____ is equivalent to _____.
<table>
<thead>
<tr>
<th>Fraction</th>
<th>Pick the Equivalent Fraction</th>
<th>Show Your Work</th>
</tr>
</thead>
</table>
| \( \frac{2}{4} \) | \( \frac{1}{3} \) \( \frac{6}{12} \) \( \frac{2}{9} \) \( \frac{4}{10} \) \( \frac{2}{6} \) | _____ is equivalent to _____.
| \( \frac{1}{6} \) | \( \frac{4}{6} \) \( \frac{3}{8} \) \( \frac{2}{12} \) \( \frac{1}{12} \) \( \frac{4}{10} \) | _____ is equivalent to _____.
| \( \frac{1}{3} \) | \( \frac{3}{4} \) \( \frac{4}{8} \) \( \frac{6}{9} \) \( \frac{4}{12} \) \( \frac{7}{12} \) | _____ is equivalent to _____.
# Worksheet

**Fraction Magnitude:** Comparing Fractions With Different Denominators

**Objective:** Given two fractions, compare them using greater than (>), less than (<), or equal to (=). Write the fractions with a common denominator when necessary.

**Note:** If the student struggles with this worksheet, try the Scaffolded Fraction Magnitude Worksheet.

**Directions:**

1. Look at the two fractions. Can you compare them or do you need to find a common denominator?
2. Multiply to find a common denominator, if necessary.
3. Compare the fractions using the greater than (>), less than (<), or equal to (=) symbol.
4. Check your work with the fraction tiles.
   
   a. If your answer is correct, draw a check mark and move to the next problem.
   b. If your answer is incorrect, go back and fix your work.

<table>
<thead>
<tr>
<th>Fraction 1</th>
<th>Fraction 2</th>
<th>Show Work</th>
<th>&lt;, &gt;, or =</th>
<th>Check With Tiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>3/6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4</td>
<td>3/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fraction 1</td>
<td>Fraction 2</td>
<td>Show Work</td>
<td>(&lt;), (&gt;), or (=)</td>
<td>Check With Tiles</td>
</tr>
<tr>
<td>------------</td>
<td>------------</td>
<td>-----------</td>
<td>-----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>(\frac{2}{9})</td>
<td>(\frac{6}{9})</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(\frac{3}{4})</td>
<td>(\frac{1}{12})</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(\frac{2}{4})</td>
<td>(\frac{1}{5})</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(\frac{1}{6})</td>
<td>(\frac{2}{3})</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Student Worksheet: Fraction Magnitude
Worksheet

**Scaffolded Fraction Magnitude:** Comparing Fractions With Different Denominators

**Note:** You may choose to use this worksheet prior to the Fraction Magnitude Activity, to make sure that the student has achieved mastery of each step before moving to the next.

**Objective:** Given two fractions, compare them using greater than (>), less than (<), or equal to (=). Write the fractions with a common denominator when necessary.

**Directions:**

1. Look at the two fractions. Are the denominators equal?

<table>
<thead>
<tr>
<th>Fraction 1</th>
<th>Fraction 2</th>
<th>Are the Denominators Equal? Yes or No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>3/8</td>
<td></td>
</tr>
<tr>
<td>2/7</td>
<td>6/7</td>
<td></td>
</tr>
<tr>
<td>1/4</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>2/5</td>
<td>5/6</td>
<td></td>
</tr>
<tr>
<td>3/4</td>
<td>1/3</td>
<td></td>
</tr>
<tr>
<td>5/8</td>
<td>6/8</td>
<td></td>
</tr>
<tr>
<td>3/5</td>
<td>5/10</td>
<td></td>
</tr>
</tbody>
</table>
Directions:

1. Look at the two fractions. Can you compare them or do you need to find a common denominator?

2. Multiply to find a common denominator, if necessary.

3. Check your work with the fraction tiles.
   a. If your answer is correct, draw a check mark and move to the next problem.
   b. If your answer is incorrect, go back and check your work.

<table>
<thead>
<tr>
<th>Fraction 1</th>
<th>Fraction 2</th>
<th>Are the Denominators Equal? Yes or No</th>
<th>Show Work and Write the Common Denominator</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \frac{3}{9} )</td>
<td>( \frac{1}{3} )</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>( \frac{1}{4} )</td>
<td>( \frac{5}{12} )</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>( \frac{2}{7} )</td>
<td>( \frac{3}{7} )</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>( \frac{1}{2} )</td>
<td>( \frac{4}{5} )</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>
**Directions:**

1. Look at the two fractions. Can you compare them or do you need to find a common denominator?
2. Multiply to find a common denominator, if necessary.
3. Compare the fractions using the greater than (>), less than (<), or equal to (=) symbol.
4. Check your work with the fraction tiles.
   a. If your answer is correct, draw a check mark and move to the next problem.
   b. If your answer is incorrect, go back and check your work.

<table>
<thead>
<tr>
<th>Fraction 1</th>
<th>Fraction 2</th>
<th>Show Work and Write the Common Denominator</th>
<th>Compare: &lt;, &gt;, or =</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/5</td>
<td>3/4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2/3</td>
<td>1/3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/7</td>
<td>1/2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4</td>
<td>3/8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/5</td>
<td>7/10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Worksheet
Converting Mixed Numbers and Improper Fractions

**Objective:** Determine whether a fraction is an improper fraction or a mixed number. Use fraction circles to represent and convert between improper fractions and mixed numbers.

**Steps:**
1. Look at the fraction. Is it an improper fraction or a mixed number?
2. Write the fraction in the correct column (either improper fraction or mixed number).
3. Use fraction circles to help convert the improper fraction or mixed number to its equivalent form.

<table>
<thead>
<tr>
<th>Fraction</th>
<th>Fraction Circles</th>
<th>Improper Fraction Example: $\frac{3}{2}$</th>
<th>Mixed Number Example: $1\frac{2}{5}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\frac{9}{6}$</td>
<td><img src="image1" alt="Fraction Circles" /></td>
<td><img src="image2" alt="Fraction Circles" /></td>
<td></td>
</tr>
<tr>
<td>$1\frac{3}{4}$</td>
<td><img src="image3" alt="Fraction Circles" /></td>
<td><img src="image4" alt="Fraction Circles" /></td>
<td></td>
</tr>
<tr>
<td>Fraction</td>
<td>Fraction Circles</td>
<td>Improper Fraction</td>
<td>Mixed Number</td>
</tr>
<tr>
<td>-----------</td>
<td>------------------</td>
<td>-------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>$\frac{8}{5}$</td>
<td><img src="image1" alt="Fraction Circles" /></td>
<td>$\frac{3}{2}$</td>
<td>$1 \frac{2}{5}$</td>
</tr>
<tr>
<td>$\frac{11}{7}$</td>
<td><img src="image2" alt="Fraction Circles" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$1 \frac{2}{3}$</td>
<td><img src="image3" alt="Fraction Circles" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$1 \frac{5}{8}$</td>
<td><img src="image4" alt="Fraction Circles" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$\frac{3}{2}$</td>
<td><img src="image5" alt="Fraction Circles" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fraction</td>
<td>Fraction Circles</td>
<td>Improper Fraction</td>
<td>Mixed Number</td>
</tr>
<tr>
<td>------------</td>
<td>------------------</td>
<td>-------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>$1 \frac{3}{4}$</td>
<td><img src="#" alt="Fraction Circles" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$\frac{12}{7}$</td>
<td><img src="#" alt="Fraction Circles" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$1 \frac{1}{12}$</td>
<td><img src="#" alt="Fraction Circles" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$\frac{10}{6}$</td>
<td><img src="#" alt="Fraction Circles" /></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>