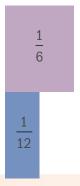# Worksheet

Fraction Equivalence

Objective: Understand fraction equivalence.
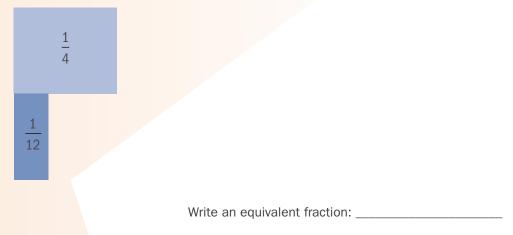
Directions: Show fraction equivalence using fraction tiles.

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

$\frac{1}{6}$

$\frac{1}{12}$

Write an equivalent fraction: _____

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

$\frac{1}{4}$

$\frac{1}{12}$

Write an equivalent fraction: _____
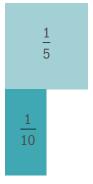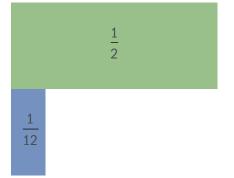
3. How many 1/10 bars are equivalent to 1/5?

$$\frac{1}{5}$$

$$\frac{1}{10}$$
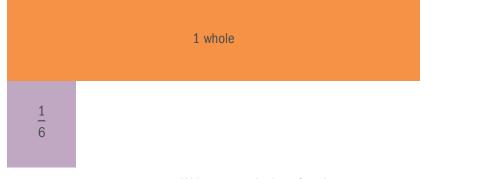
Write an equivalent fraction: _____

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

$$\frac{1}{2}$$

$$\frac{1}{12}$$
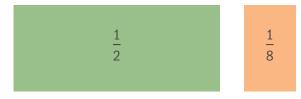
Write an equivalent fraction: _____

5. How many 1/6 bars are equivalent to 1 whole?

1 whole

$$\frac{1}{6}$$

Write an equivalent fraction: _____

6. How many 1/8 bars are equivalent to 1/2?

$$\frac{1}{2}$$

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

Write an equivalent fraction: _____

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

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

Write an equivalent fraction: _____

8. How many 1/6 bars are equivalent to 1/2?

$\frac{1}{2}$ $\frac{1}{6}$
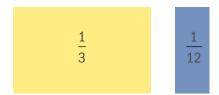
Write an equivalent fraction: _____

9. How many 1/6 bars are equivalent to 1/3?

$\frac{1}{3}$ $\frac{1}{6}$

Write an equivalent fraction: _____

10. How many 1/6 bars are equivalent to 1 whole?

$\frac{1}{3}$ $\frac{1}{12}$

Write an equivalent fraction: _____
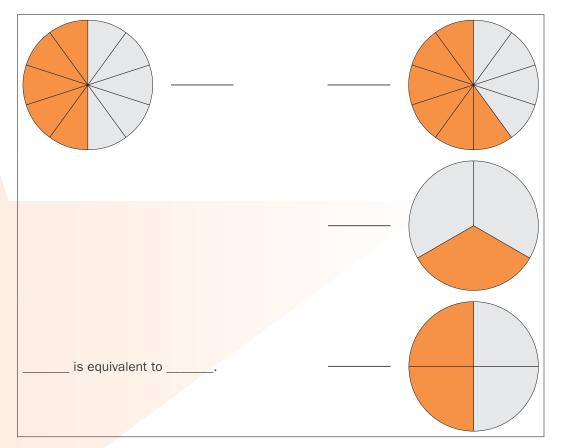
Worksheet

Identifying Equivalent Fractions
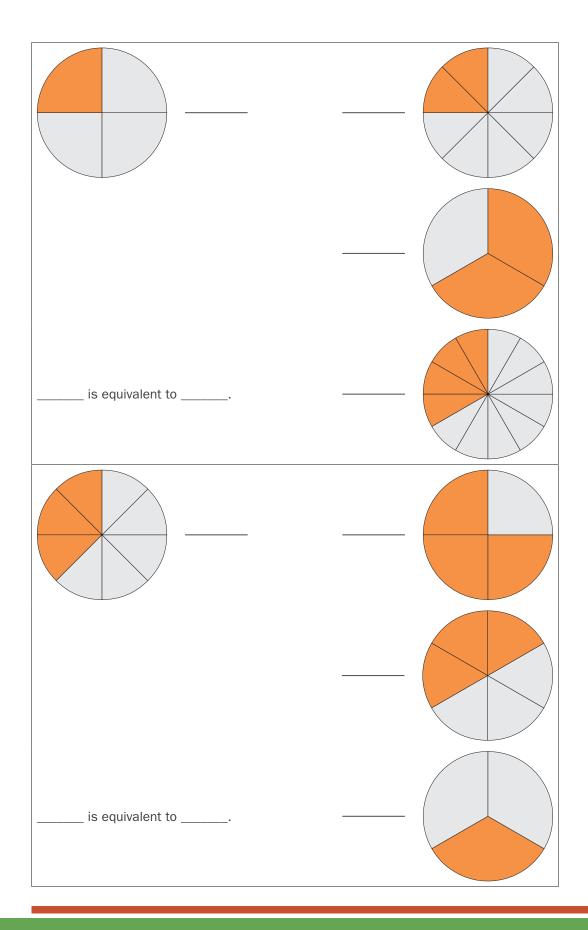
Objective: Determine whether two fractions are equivalent with pictures and numerals.
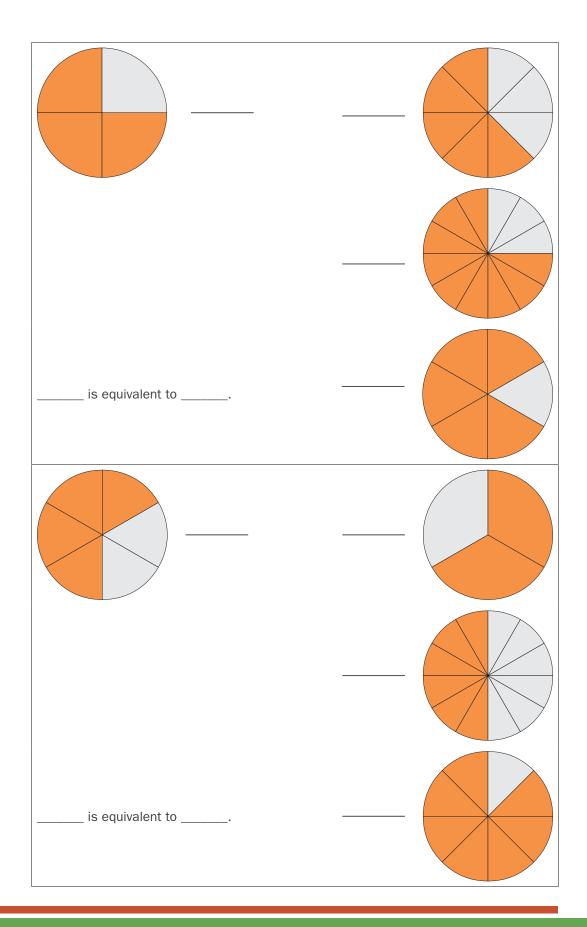
Directions: Label these fractions. Draw a line between the fractions that are equivalent.

_____ is equivalent to _____.

_____ _____

_____

_____ is equivalent to _____.

_____

_____ _____

_____

_____ is equivalent to _____.

_____

_____   _____

_____

_____

_____ is equivalent to _____.

_____   _____

_____

_____ is equivalent to _____.

_____

_____

_____

_____

_____

_____ is equivalent to _____.
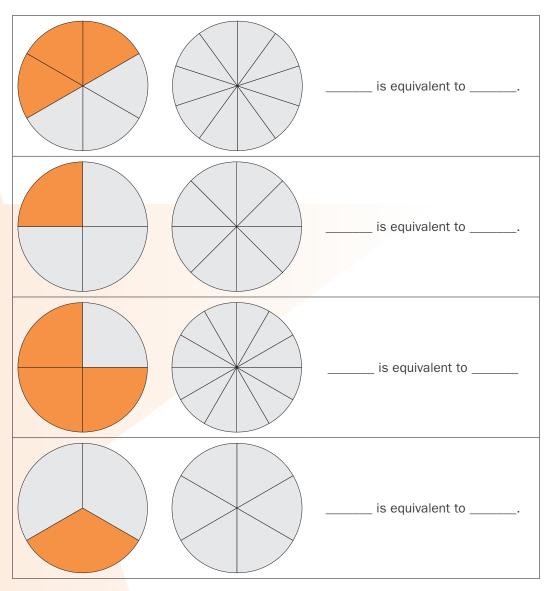
Worksheet

Making Equivalent Fractions
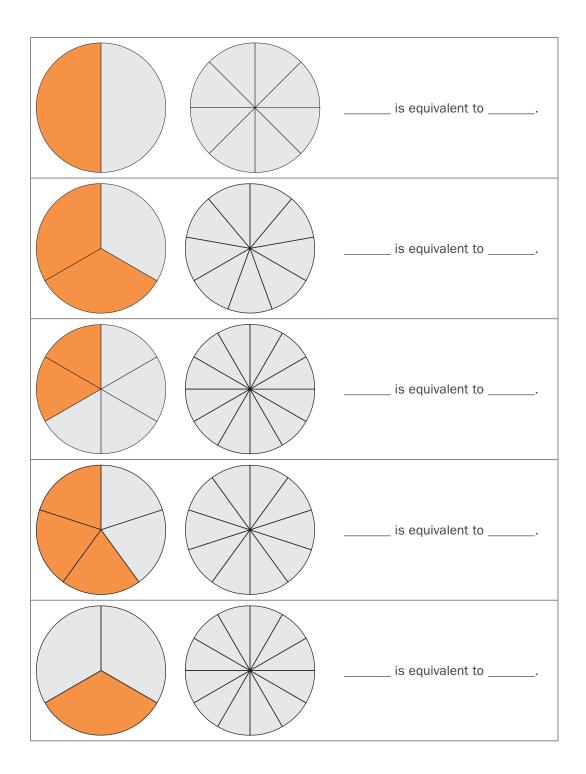
Objective: Given one fraction, generate an equivalent fraction using models.

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 _____.

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.

Fraction 1	Fraction 2	Show Your Work	Equivalent or Not Equivalent?
$\dfrac{1}{2}$	$\dfrac{2}{3}$		
$\dfrac{1}{4}$	$\dfrac{2}{8}$		
$\dfrac{2}{3}$	$\dfrac{6}{9}$		
$\dfrac{3}{4}$	$\dfrac{5}{12}$		

Fraction 1	Fraction 2	Show Your Work	Equivalent or Not Equivalent?
$\dfrac{2}{4}$	$\dfrac{6}{12}$		
$\dfrac{1}{6}$	$\dfrac{3}{8}$		
$\dfrac{1}{3}$	$\dfrac{2}{6}$		

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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.

Fraction	Pick the Equivalent Fraction	Show Your Work
$\dfrac{1}{2}$	$\dfrac{2}{3}$ $\dfrac{4}{5}$ $\dfrac{3}{8}$ $\dfrac{2}{4}$ $\dfrac{5}{8}$	_____ is equivalent to _____.
$\dfrac{1}{4}$	$\dfrac{2}{4}$ $\dfrac{1}{3}$ $\dfrac{2}{8}$ $\dfrac{5}{6}$ $\dfrac{7}{8}$	_____ is equivalent to _____.
$\dfrac{2}{3}$	$\dfrac{1}{5}$ $\dfrac{3}{4}$ $\dfrac{2}{6}$ $\dfrac{9}{10}$ $\dfrac{4}{6}$	_____ is equivalent to _____.
$\dfrac{3}{4}$	$\dfrac{9}{12}$ $\dfrac{3}{5}$ $\dfrac{6}{7}$ $\dfrac{1}{2}$ $\dfrac{5}{10}$	_____ is equivalent to _____.

Fraction	Pick the Equivalent Fraction	Show Your Work
$\dfrac{2}{4}$	$\dfrac{1}{3}$ $\dfrac{6}{12}$ $\dfrac{2}{9}$ $\dfrac{4}{10}$ $\dfrac{2}{6}$	_____ is equivalent to _____.
$\dfrac{1}{6}$	$\dfrac{4}{6}$ $\dfrac{3}{8}$ $\dfrac{2}{12}$ $\dfrac{1}{12}$ $\dfrac{4}{10}$	_____ is equivalent to _____.
$\dfrac{1}{3}$	$\dfrac{3}{4}$ $\dfrac{4}{8}$ $\dfrac{6}{9}$ $\dfrac{4}{12}$ $\dfrac{7}{12}$	_____ 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.

Fraction 1	Fraction 2	Show Work	<, >, or =	Check With Tiles ✔
$\dfrac{1}{2}$	$\dfrac{3}{6}$			
$\dfrac{1}{4}$	$\dfrac{3}{8}$			

Fraction 1	Fraction 2	Show Work	<, >, or =	Check With Tiles ✓
$\dfrac{2}{9}$	$\dfrac{6}{9}$			
$\dfrac{3}{4}$	$\dfrac{1}{12}$			
$\dfrac{2}{4}$	$\dfrac{1}{5}$			
$\dfrac{1}{6}$	$\dfrac{2}{3}$			

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?

Fraction 1	Fraction 2	Are the Denominators Equal? Yes or No
$\frac{1}{2}$	$\frac{3}{8}$	
$\frac{2}{7}$	$\frac{6}{7}$	
$\frac{1}{4}$	$\frac{3}{4}$	
$\frac{2}{5}$	$\frac{5}{6}$	
$\frac{3}{4}$	$\frac{1}{3}$	
$\frac{5}{8}$	$\frac{6}{8}$	
$\frac{3}{5}$	$\frac{5}{10}$	

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.

Fraction 1	Fraction 2	Are the Denominators Equal? Yes or No	Show Work and Write the Common Denominator
$\dfrac{3}{9}$	$\dfrac{1}{3}$		
$\dfrac{1}{4}$	$\dfrac{5}{12}$		
$\dfrac{2}{7}$	$\dfrac{3}{7}$		
$\dfrac{1}{2}$	$\dfrac{4}{5}$		

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.

Fraction 1	Fraction 2	Show Work and Write the Common Denominator	Compare: <, >, or =
$\dfrac{2}{5}$	$\dfrac{3}{4}$		
$\dfrac{2}{3}$	$\dfrac{1}{3}$		
$\dfrac{5}{7}$	$\dfrac{1}{2}$		
$\dfrac{1}{4}$	$\dfrac{3}{8}$		
$\dfrac{4}{5}$	$\dfrac{7}{10}$		

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.

Fraction	Fraction Circles	Improper Fraction Example: $\dfrac{3}{2}$	Mixed Number Example: $1\dfrac{2}{5}$
$\dfrac{9}{6}$			
$1\dfrac{3}{4}$			

Fraction	Fraction Circles	Improper Fraction Example: $\frac{3}{2}$	Mixed Number Example: $1\frac{2}{5}$
$\frac{8}{5}$			
$\frac{11}{7}$			
$1\frac{2}{3}$			
$1\frac{5}{8}$			
$\frac{3}{2}$			

Fraction	Fraction Circles	Improper Fraction Example: $\dfrac{3}{2}$	Mixed Number Example: $1\dfrac{2}{5}$
$1\dfrac{3}{4}$			
$\dfrac{12}{7}$			
$1\dfrac{1}{12}$			
$\dfrac{10}{6}$			