# Math
## Mat Centers
# Fractions

Adding Mixed Numbers

Simplifying Fractions

Comparing Fractions

Multiplying Fractions by Whole Numbers

Jennifer Findley

# About this Resource

This resource contains 15 simple to use math mat centers for fractions. The students use the number cards found on pages 4 and 5 to create fractions, whole numbers, and mixed numbers according to the directions on each mat. The students place the number cards on the mat and then solve the specific problem. All but three of the mats have space for the students to show their work on the mat. Laminate the mats and the number cards for future use. The students can use expo markers on the mat to show their work.

These centers would work well for math centers, independent practice, tutoring, RTI, and many other uses.

This resource reviews these fraction skills:
- Simplifying Fractions
- Converting Improper Fractions to Mixed Numbers
- Converting Mixed Numbers to Improper Fractions
- Comparing Fractions
- Adding Fractions
- Subtracting Fractions
- Adding Mixed Numbers
- Subtracting Mixed Numbers
- Multiplying Fractions by Whole Numbers
- Multiplying Whole Numbers by Fractions
- Multiplying Fractions
- Multiplying Mixed Numbers
- Dividing Unit Fractions by Whole Numbers
- Dividing Whole Numbers by Unit Fractions
- Dividing Fractions

**Adding Mixed Numbers**
Directions: Use the number cards to create two mixed numbers. Add the mixed numbers. Record your answer in simplest form.
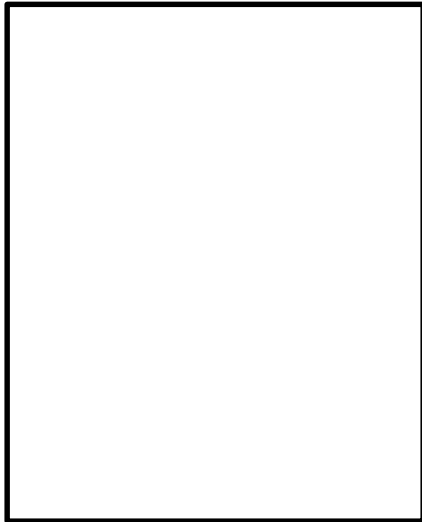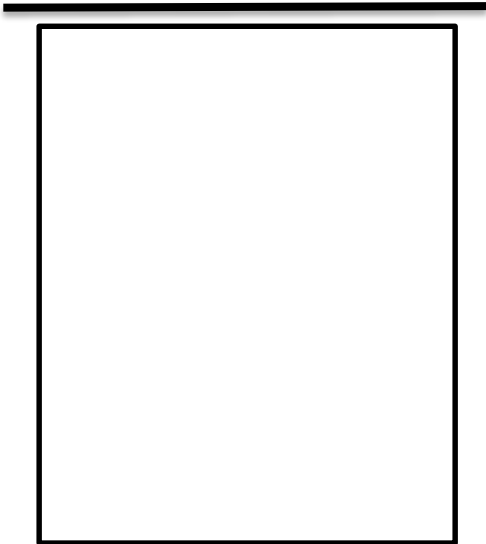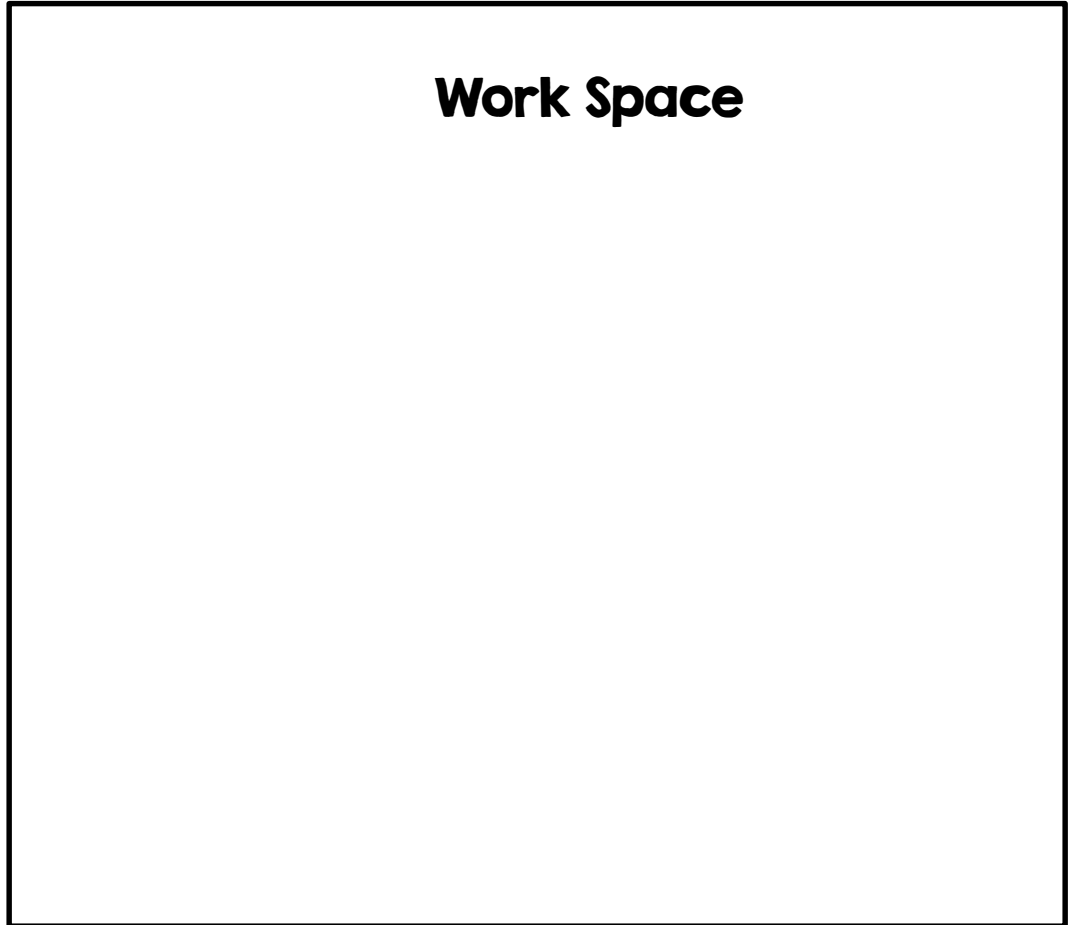
$$3\frac{2}{5} + 4\frac{1}{15} =$$

**Simplifying Fractions**
Directions: Use the number cards to create a proper fraction. Determine if the fraction is in simplest form. If not, simplify it. If it simplifies, explain how you know.
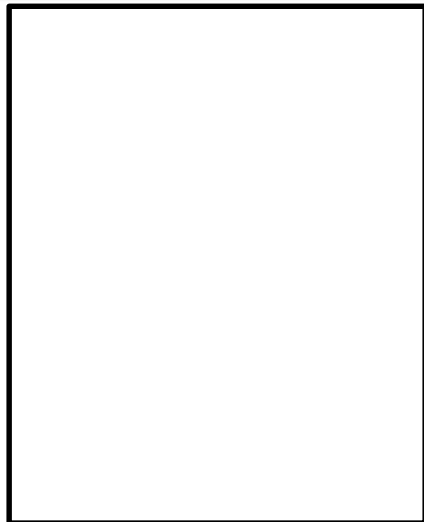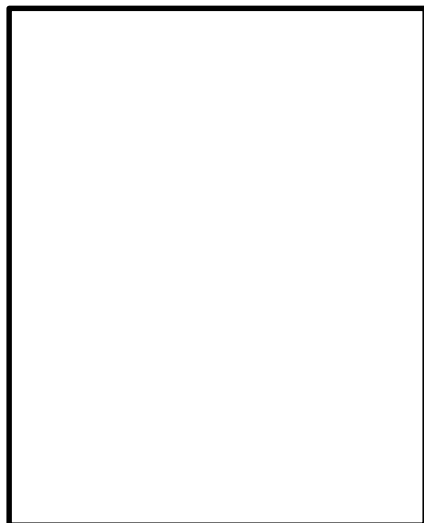
Work Space

$$\frac{2}{8} \div \frac{2}{2} = \frac{1}{4}$$

**Comparing Fractions**
Directions: Use the number cards to create two proper fractions. Compare the fractions.

Work Space

$$\frac{2}{7} \times \frac{3}{3} = \frac{6}{21}$$

$$\frac{1 \times 7}{3 \times 7} = \frac{7}{21}$$

$$\frac{6}{21} < \frac{7}{21}$$

$$\frac{2}{7} < \frac{1}{3}$$

**Multiplying Fractions by Whole Numbers**
Directions: Use the number cards to create a proper fraction and a whole number. Multiply the fraction by the whole number. Record your answer in simplest form.

Work Space

$$\frac{2}{3} \times 15 = 10$$

$$\frac{2}{3} \times 15 =$$

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| 5 | 6 | 7 | 8 |

| 9 | 10 | 12 | 14 |
|---|----|----|----|
| 15 | 2 | 4 | 6 |

# Simplifying Fractions

Directions: Use the number cards to create a proper fraction. Determine if the fraction is in simplest form. If not, simplify it. If it simplified, explain how you know.
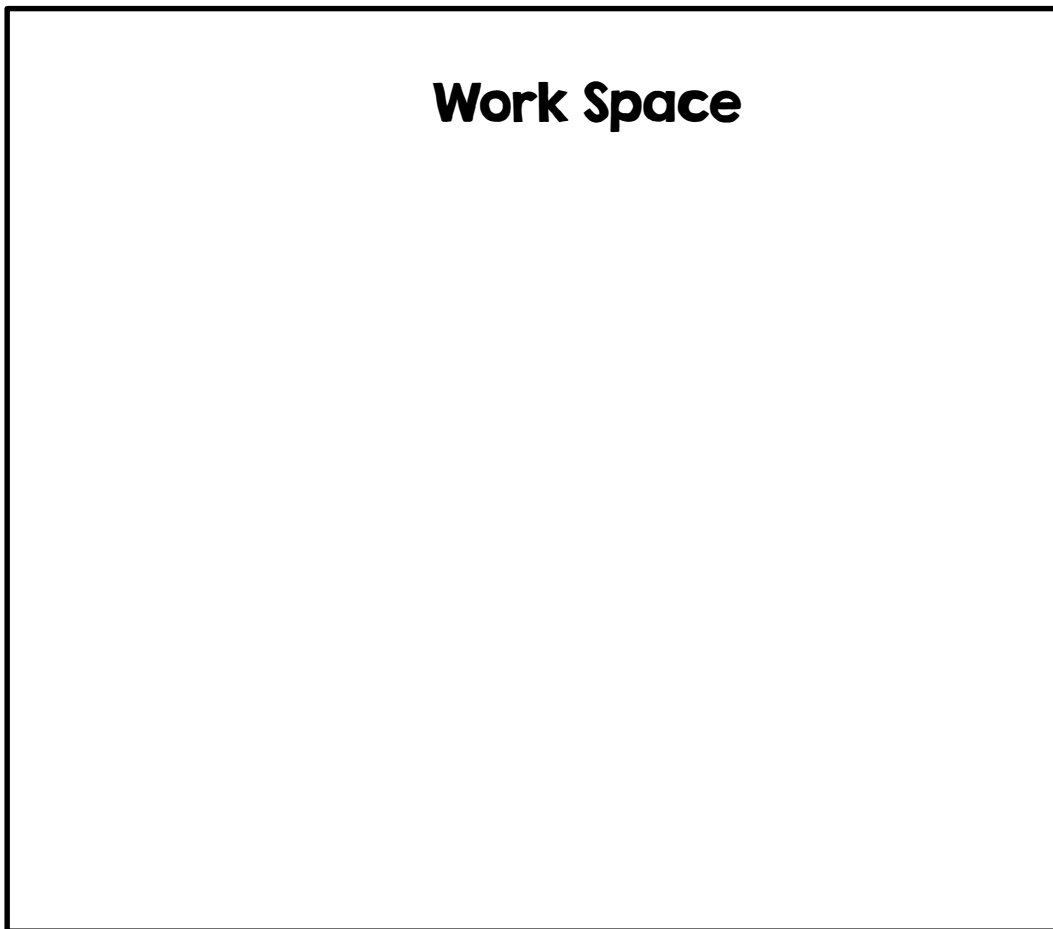
**Work Space**

# Improper Fractions to Mixed Numbers

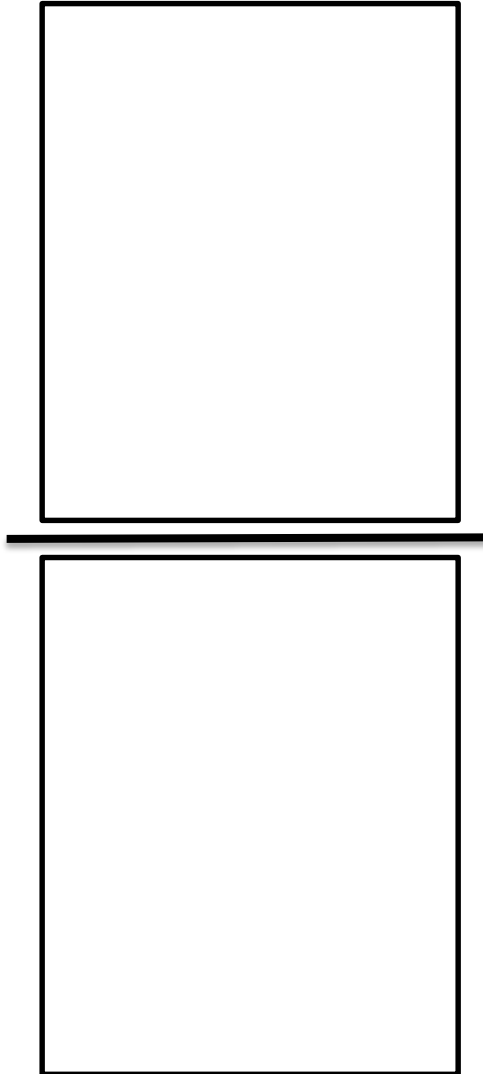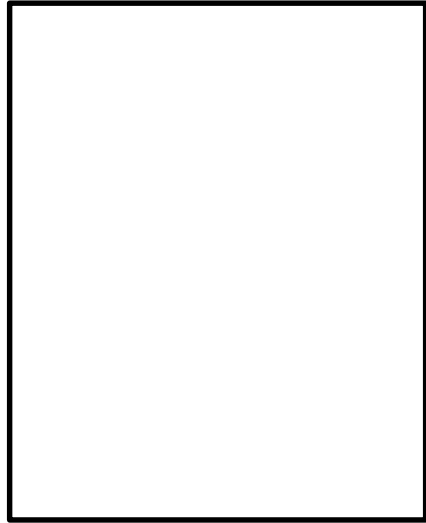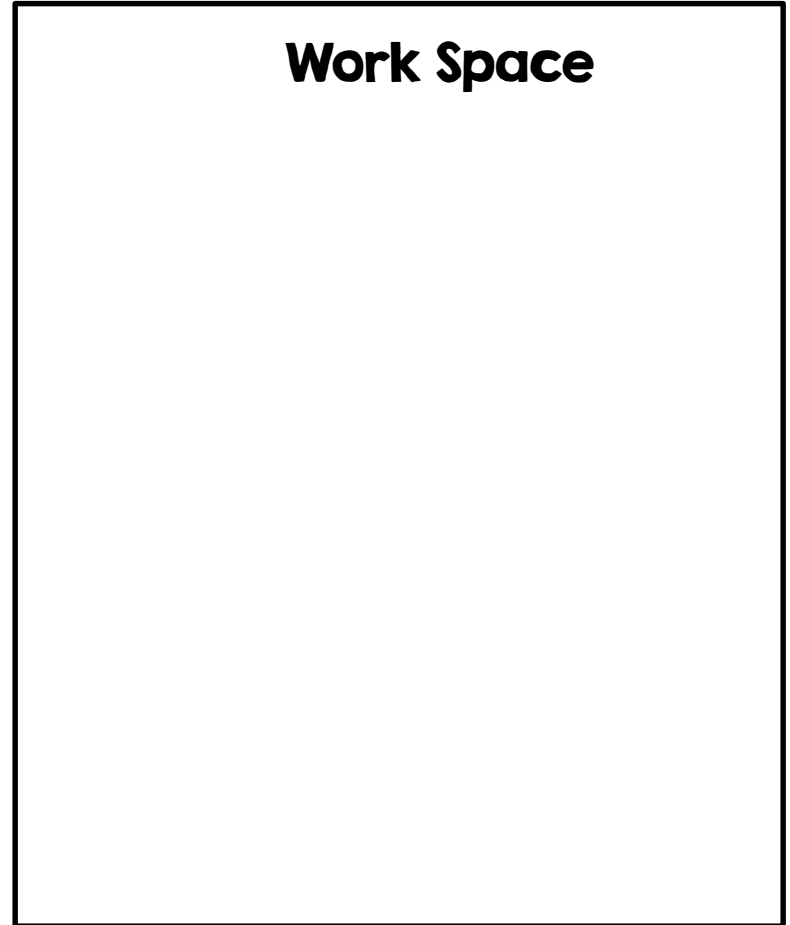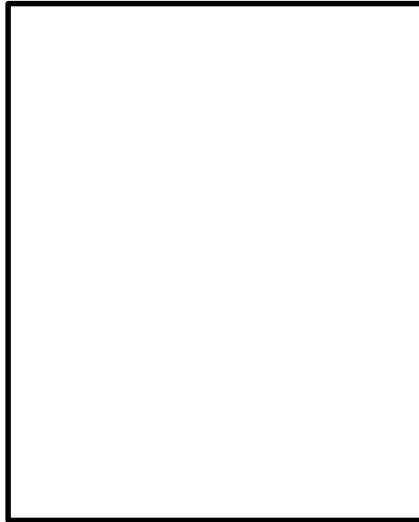Directions: Use the number cards to create an improper fraction. Convert the improper fraction to a mixed number.

**Work Space**

# Mixed Numbers to Improper Fractions

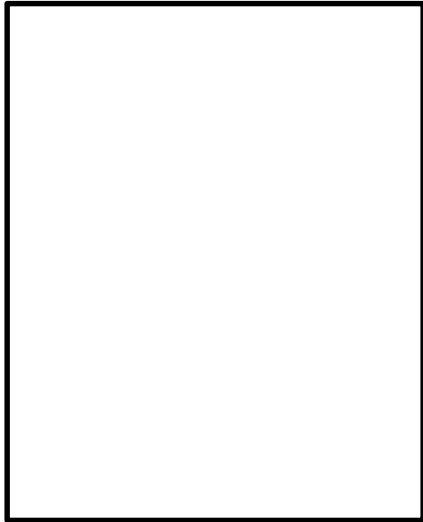Directions: Use the number cards to create a mixed number. Convert the mixed number to an improper fraction.
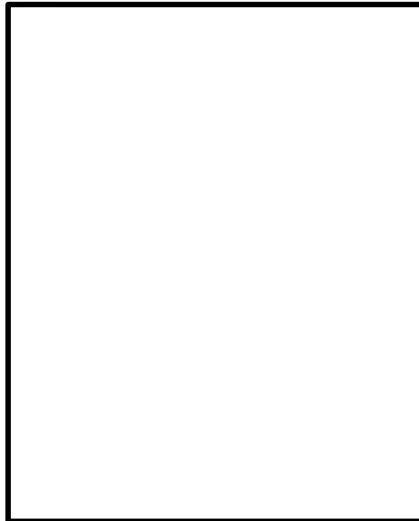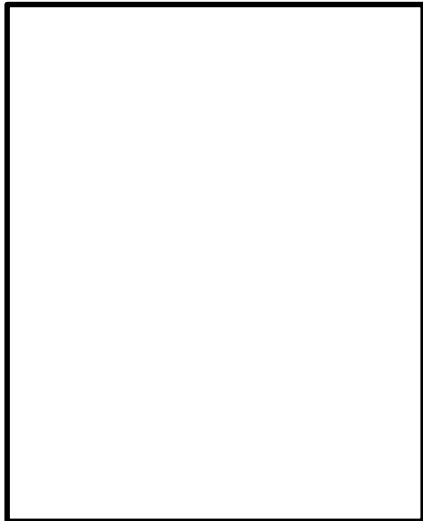
**Work Space**

# Comparing Fractions
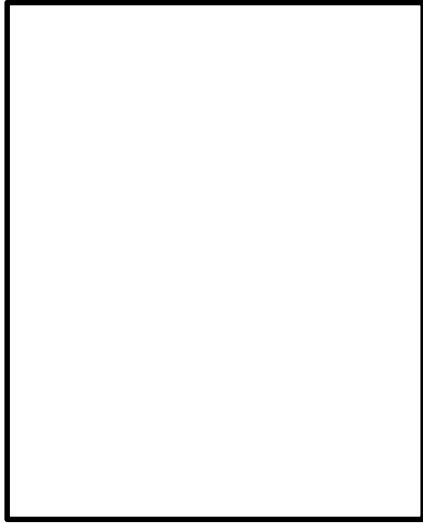
Directions: Use the number cards to create two proper fractions. Compare the fractions using <, >, or =.
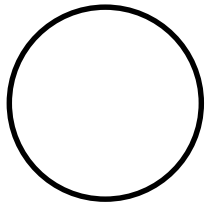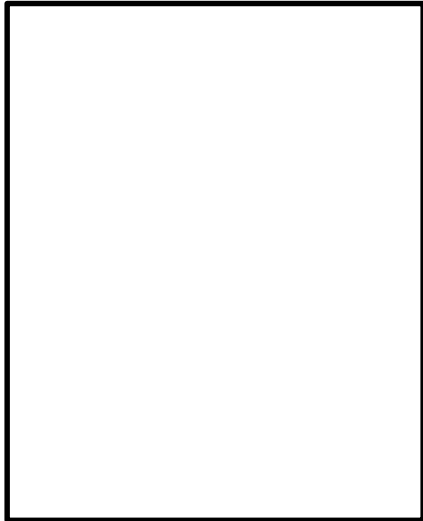
**Work Space**

# Adding Fractions

Directions: Use the number cards to create two proper fractions. Add the fractions. Record your answer in simplest form.
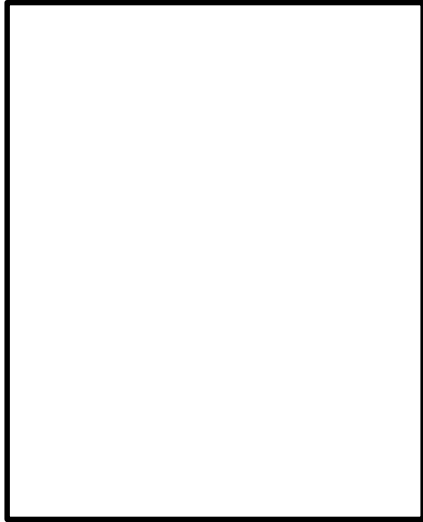
$$\frac{\boxed{\phantom{X}}}{\boxed{\phantom{X}}} + \frac{\boxed{\phantom{X}}}{\boxed{\phantom{X}}} =$$
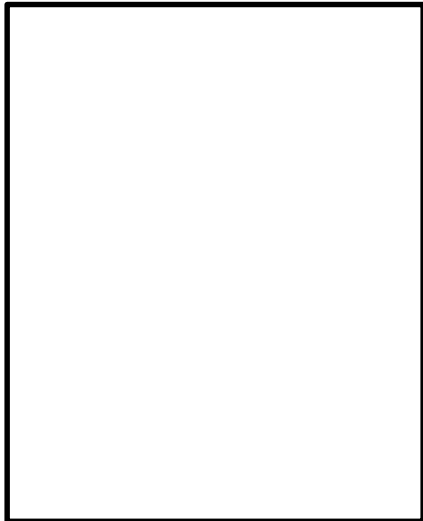
**Work Space**

# Subtracting Fractions

Directions: Use the number cards to create two proper fractions. Subtract the smaller fraction from the larger fraction. Record your answer in simplest form.
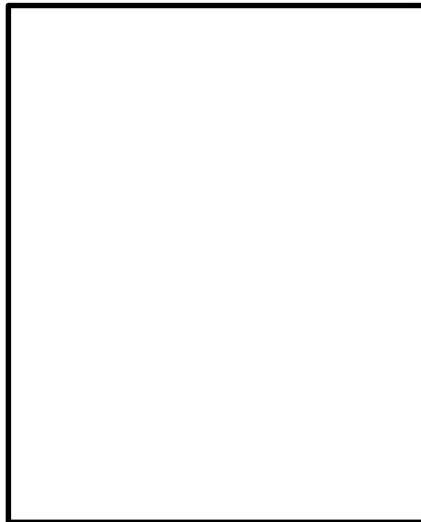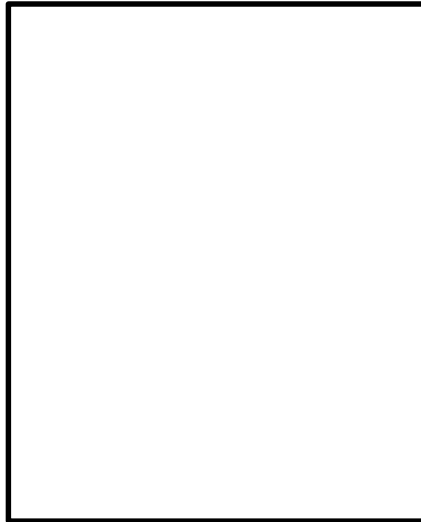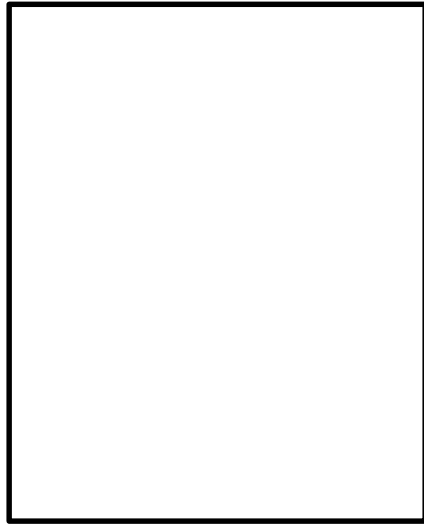
**Work Space**

# Adding Mixed Numbers

Directions: Use the number cards to create two mixed numbers. Add the mixed numbers. Record your answer in simplest form.
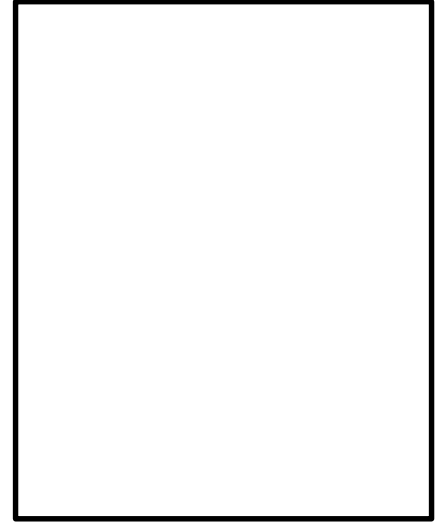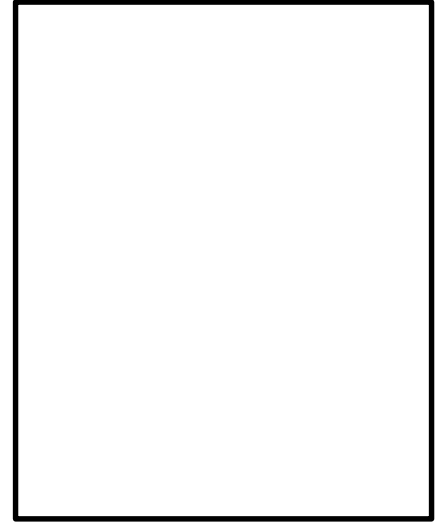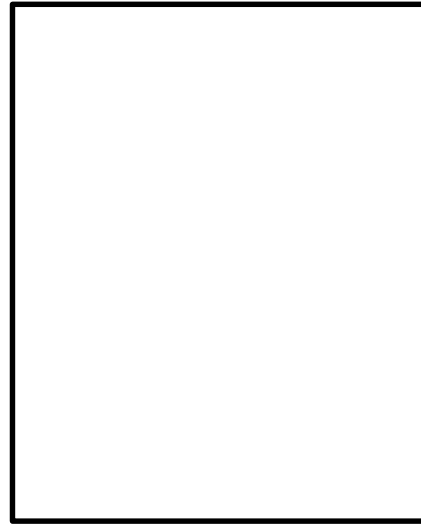
+

=

# Subtracting Mixed Numbers

Directions: Use the number cards to create two mixed numbers. Subtract the smaller mixed number from the larger one. Record your answer in simplest form.
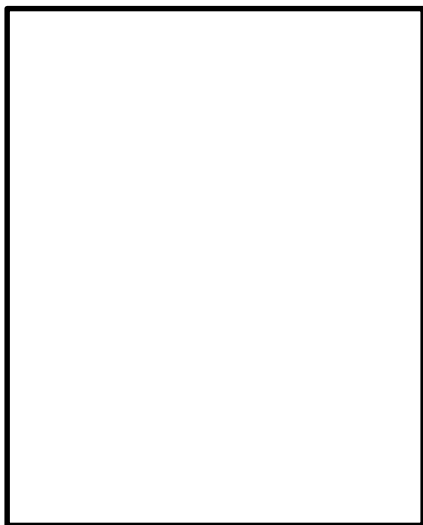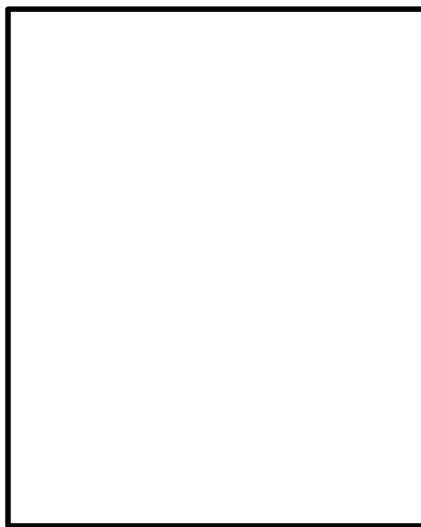
# Multiplying Fractions by Whole Numbers

Directions: Use the number cards to create a proper fraction and a whole number. Multiply the fraction by the whole number. Record your answer in simplest form.
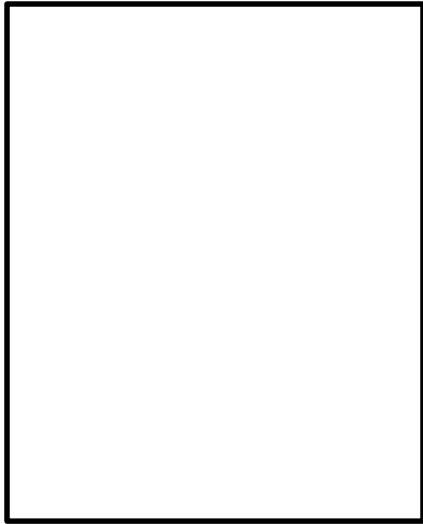
x = 

**Work Space**

# Multiplying Whole Numbers by Fractions

Directions: Use the number cards to create a whole number and a proper fraction. Multiply the whole number by the fraction. Record your answer in simplest form.
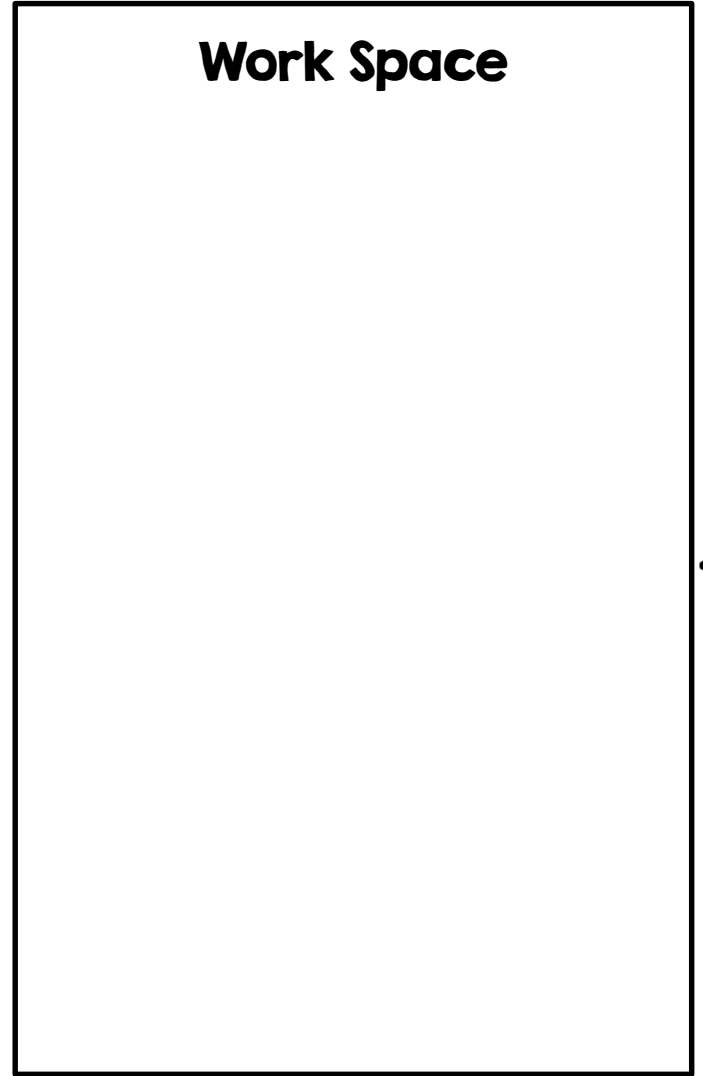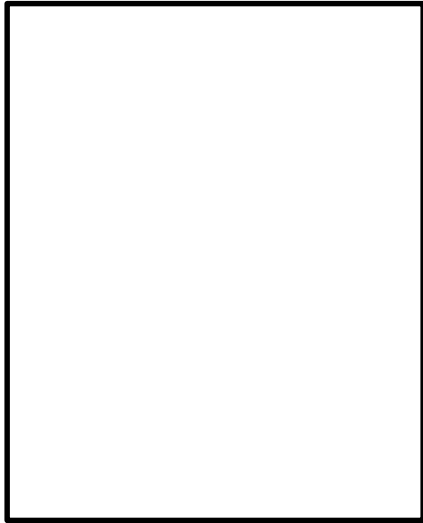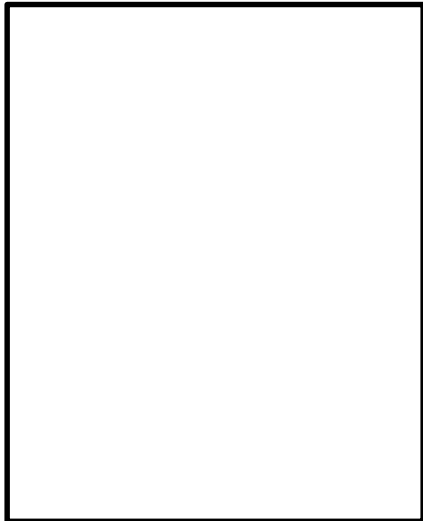
x

＝

**Work Space**

# Multiplying Fractions

Directions: Use the number cards to create two proper fractions. Multiply the fractions. Record your answer in simplest form.
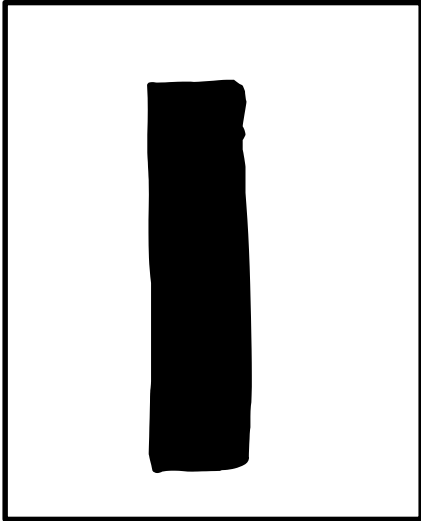
**x**

**=**

## Work Space

# Multiplying Mixed Numbers

Directions: Use the number cards to create two mixed numbers. Multiply the mixed numbers. Record your answer in simplest form.
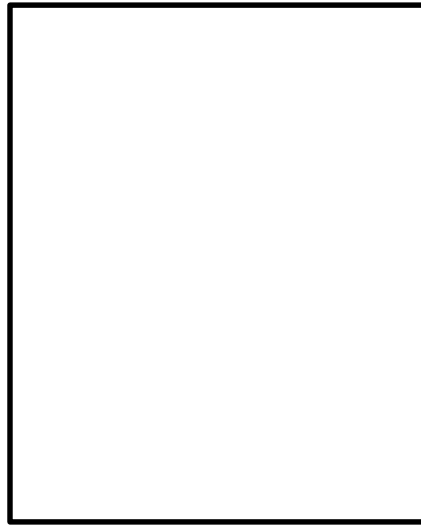
$$\boxed{\phantom{xx}} \quad \frac{\boxed{\phantom{xx}}}{\boxed{\phantom{xx}}} \quad \mathbf{X} \quad \boxed{\phantom{xx}} \quad \frac{\boxed{\phantom{xx}}}{\boxed{\phantom{xx}}} \quad \mathbf{=}$$

# Dividing Unit Fractions by Whole Numbers

Directions: Use the number cards to finish the unit fraction and create a whole number. Divide the fraction by the whole number.
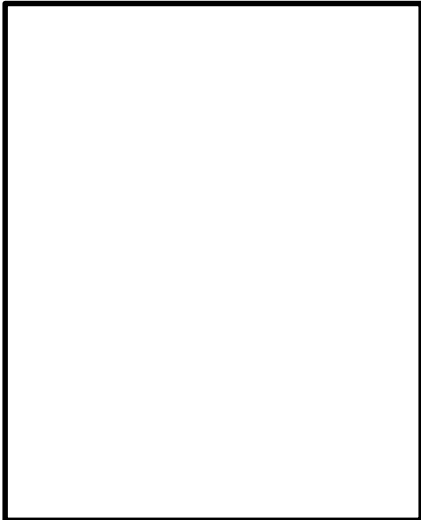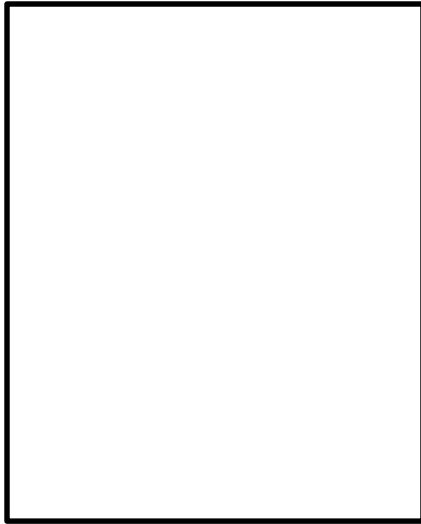
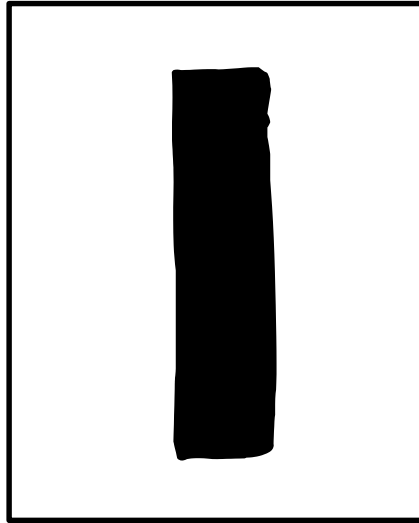$$\frac{1}{\phantom{XX}} \div \boxed{\phantom{XXXX}} = $$

## Work Space

# Dividing Whole Numbers by Unit Fractions

Directions: Use the number cards to finish the unit fraction and create a whole number. Divide the whole number by the fraction.
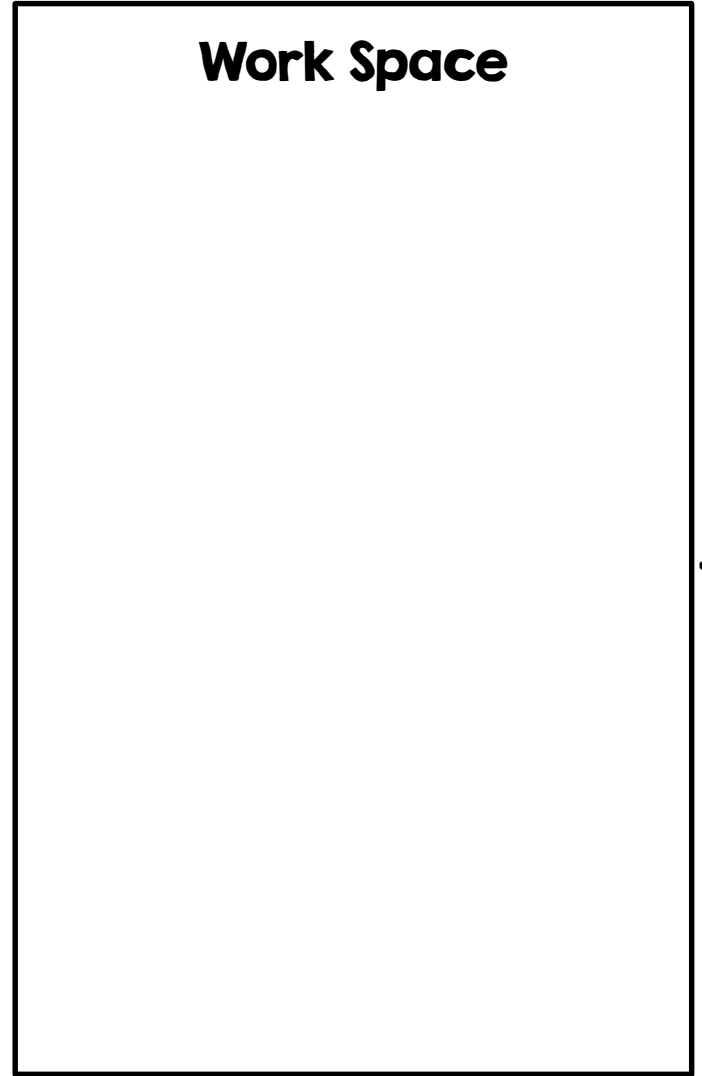
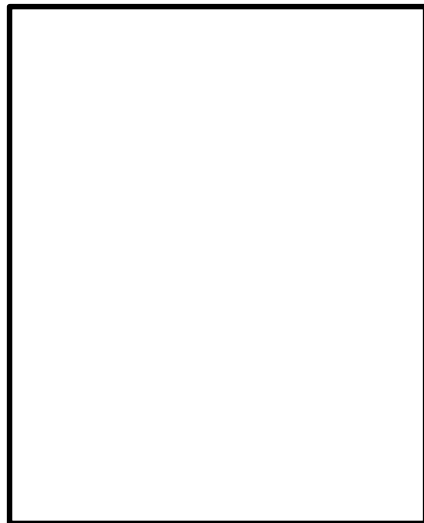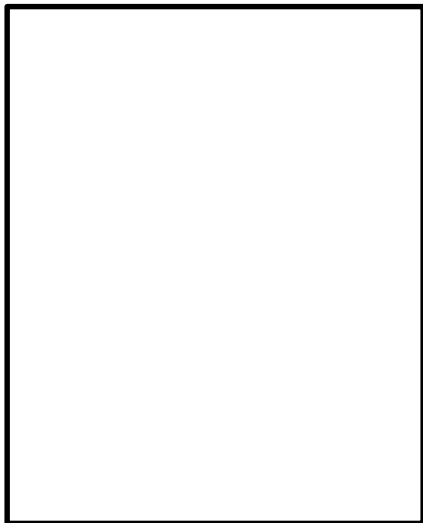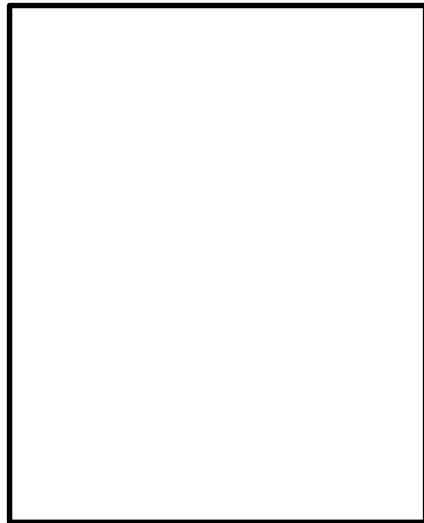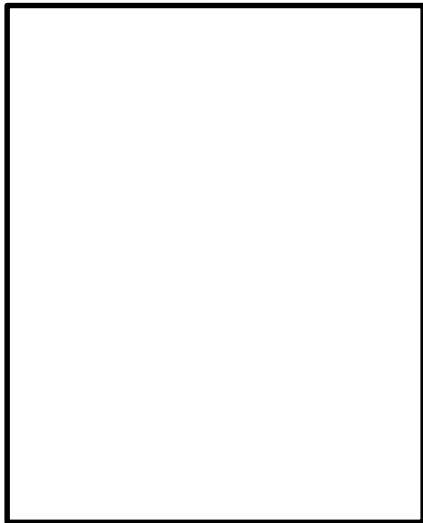$$ \boxed{\phantom{XX}} \div \frac{1}{\boxed{\phantom{XX}}} = \boxed{\phantom{XX}} $$

**Work Space**

# Dividing Fractions

Directions: Use the number cards to create two proper fractions. Divide the fractions. Record your answer in simplest form.

$$\frac{\phantom{XXX}}{\phantom{XXX}} \div \frac{\phantom{XXX}}{\phantom{XXX}} =$$

**Work Space**

This resource was created by Jennifer Findley. It may be printed and photocopied for single classroom use. It may not be put on the Internet, sold, or distributed in any form.  Check out my store for more resources that are common core aligned.

Follow my blog for updates and freebies.

Thanks!
Jennifer Findley