

The background features a collage of math worksheets and number cards. The worksheets include:

- Adding Mixed Numbers**: A worksheet with a grid for numbers.
- Simplifying Fractions**: A worksheet with a 'Work Space' section showing the calculation $\frac{2}{2} \div \frac{2}{2} = \frac{1}{4}$.
- Comparing Fractions**: A worksheet with a 'Work Space' section showing the calculation $\frac{2}{3} > \frac{6}{21}$ and $\frac{17}{3}$.
- Multiplying Fractions by Whole Numbers**: A worksheet with a 'Work Space' section showing the calculation $2 \times 15 = 10$.

Yellow number cards (1-9) are scattered throughout the collage. A green Expo marker is also visible.

Math Mat Centers

Fractions

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, and write the simplified form.

3 2 4 1
5 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 is simplest, explain how you know.

Work Space

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

2 8

Comparing Fractions

Directions: Use the number cards to create two proper fractions. Compare the fractions and write the symbol < or >.

Work Space

$$\frac{2}{7} > \frac{1}{21}$$

$$\frac{1}{3} > \frac{7}{21}$$

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

2 1 7 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

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

2 3 15

1

2

3

4

5

6

7

8

9

10

12

14

15

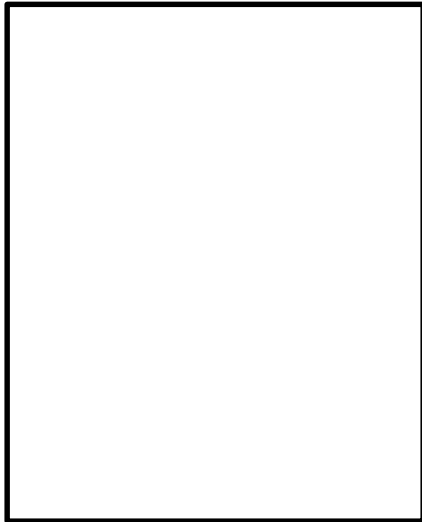
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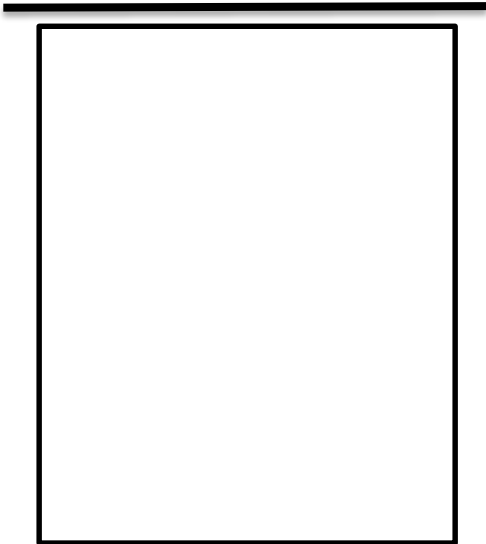
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6

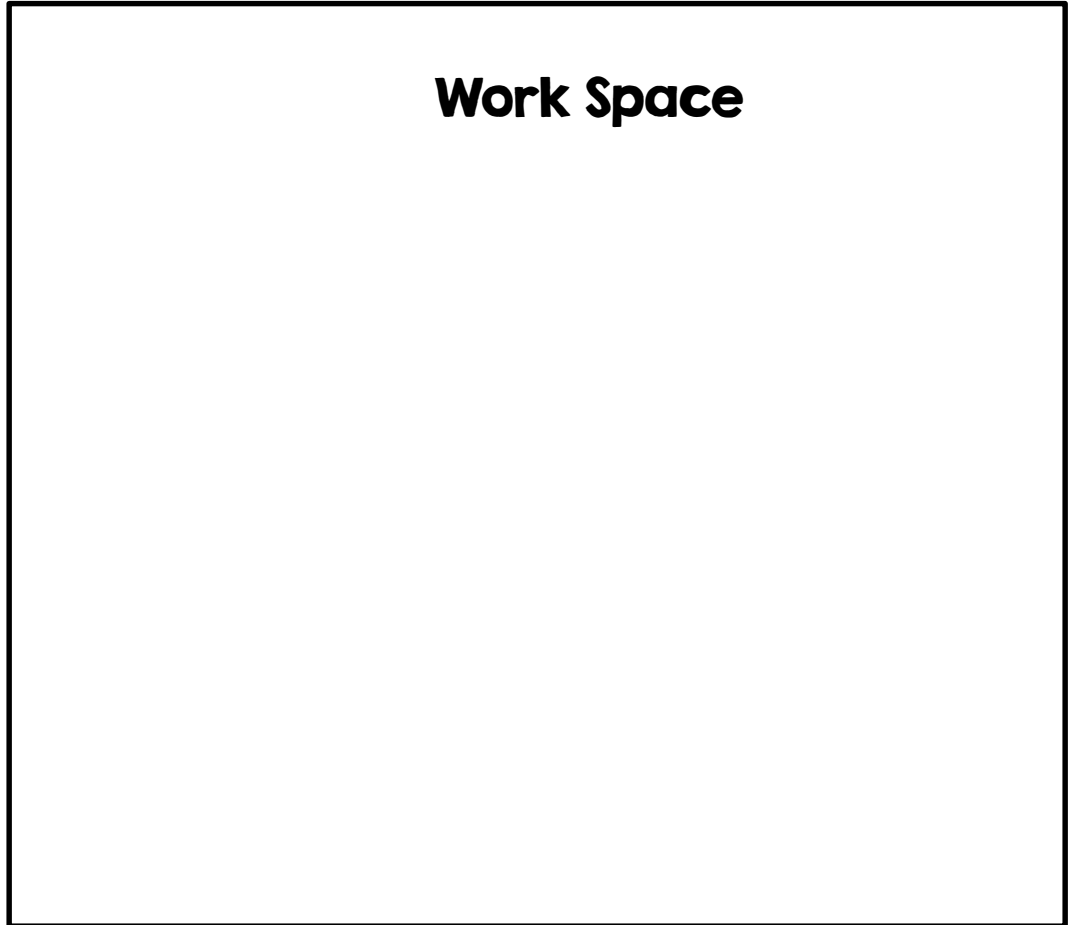
Simplifying Fractions

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.



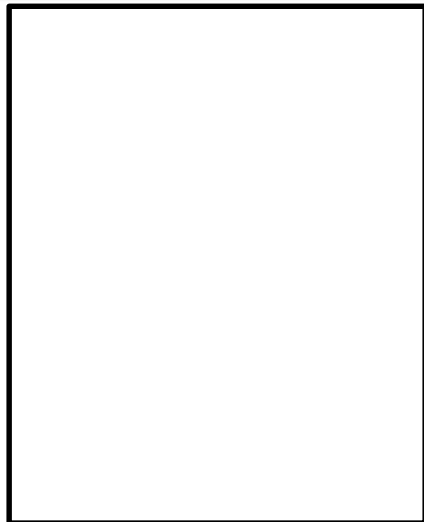
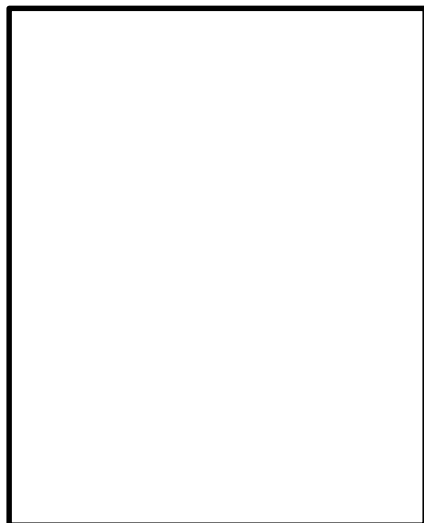


Work Space

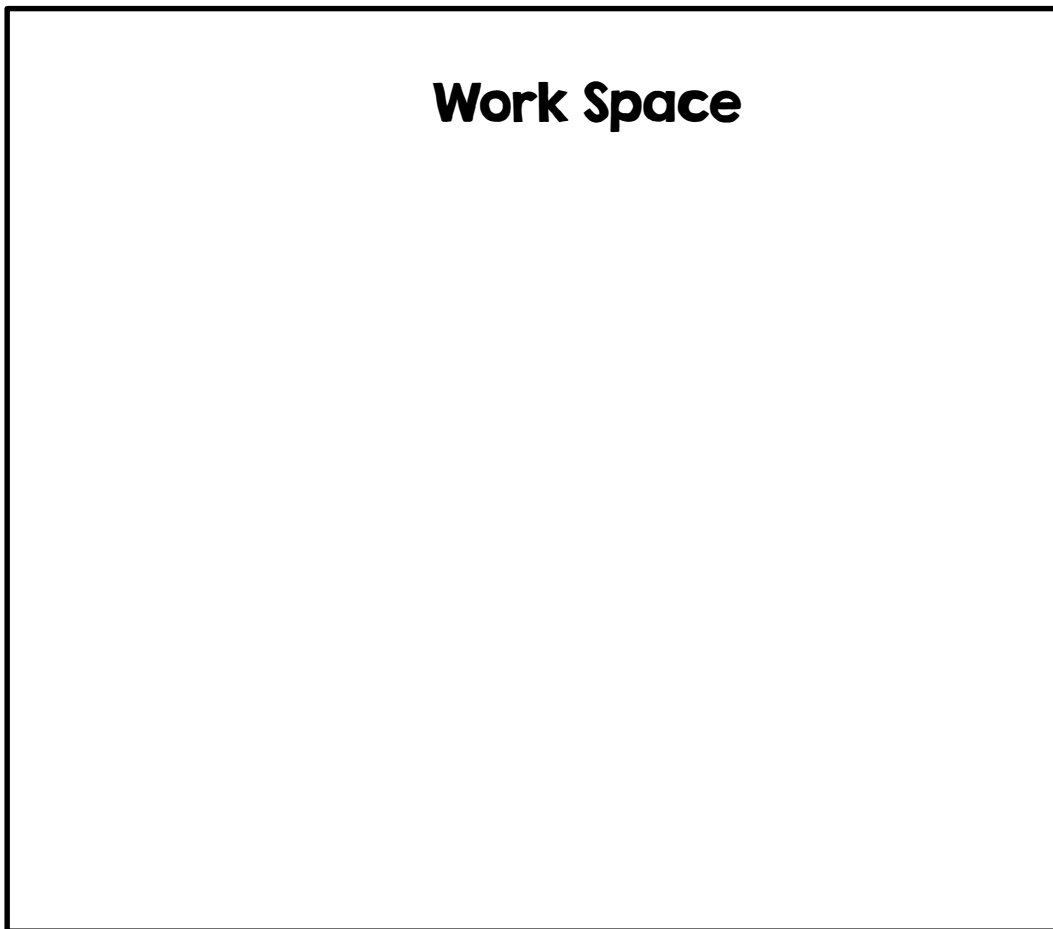


Improper Fractions to Mixed Numbers

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

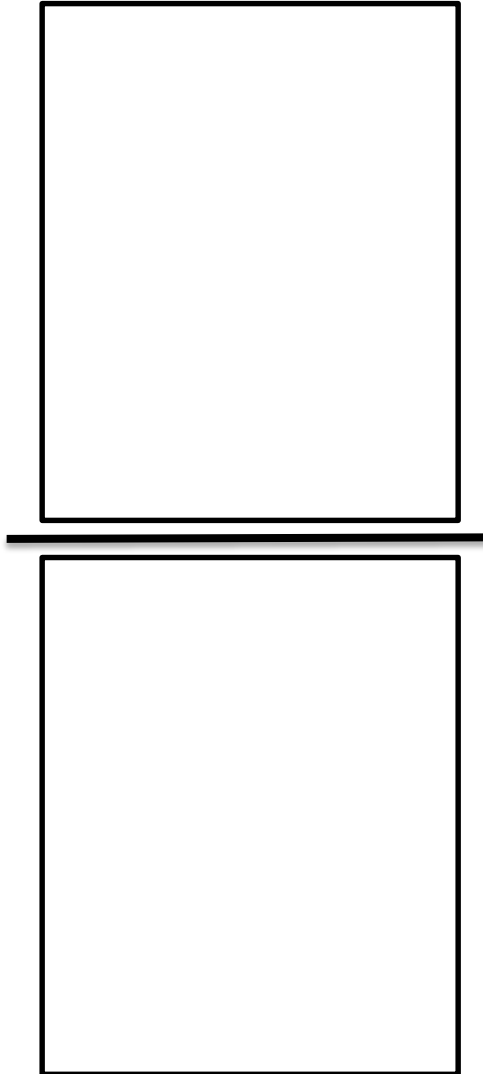
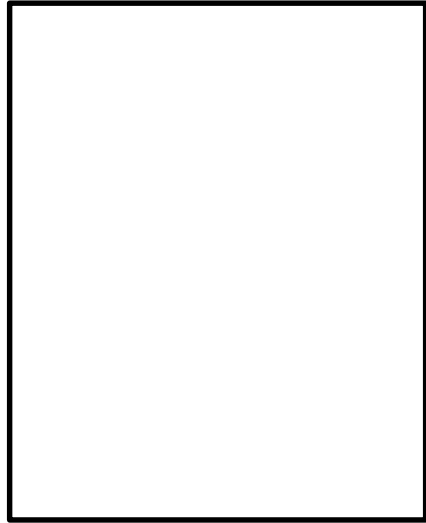


Work Space

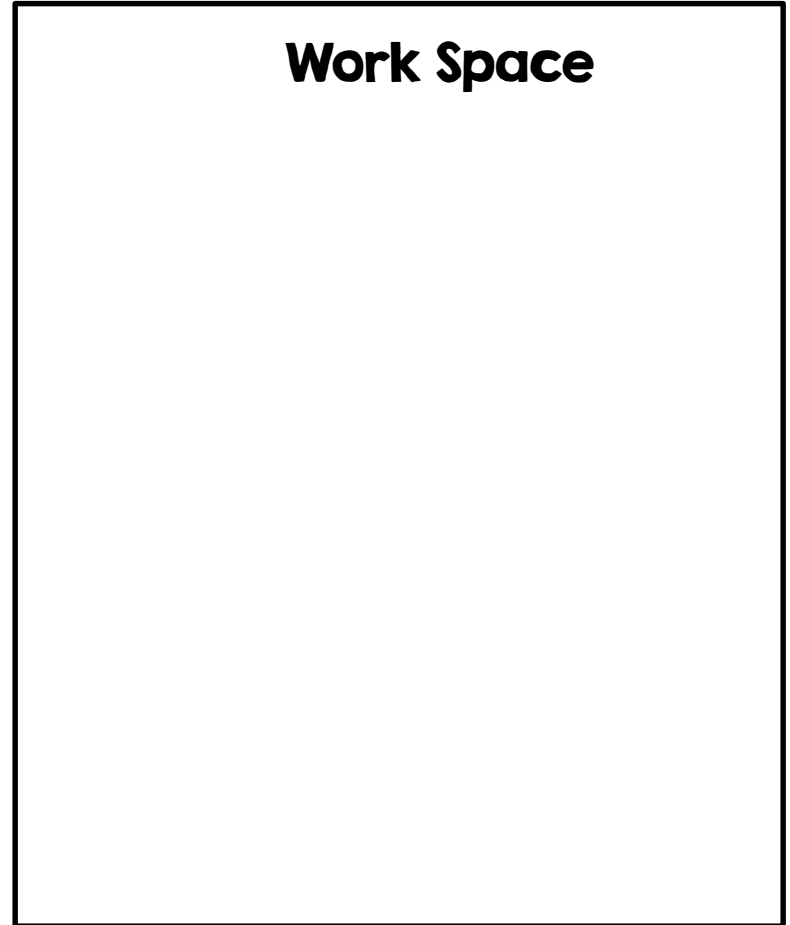


Mixed Numbers to Improper Fractions

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

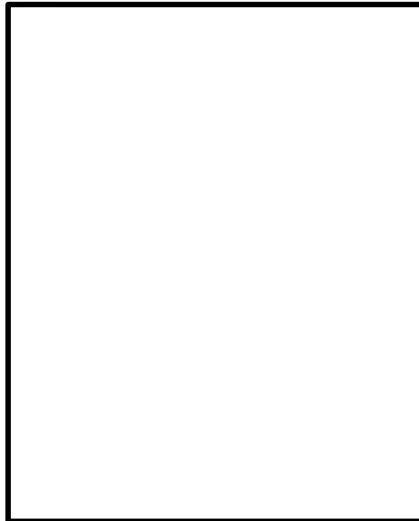
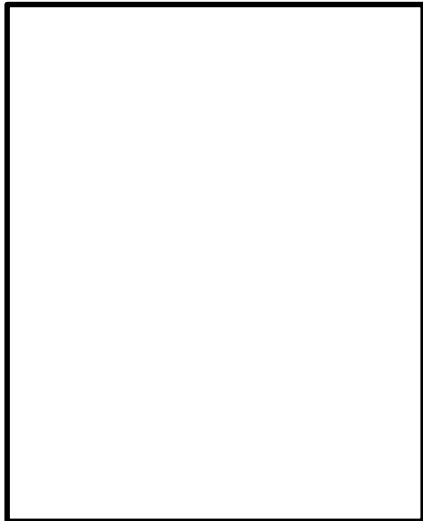
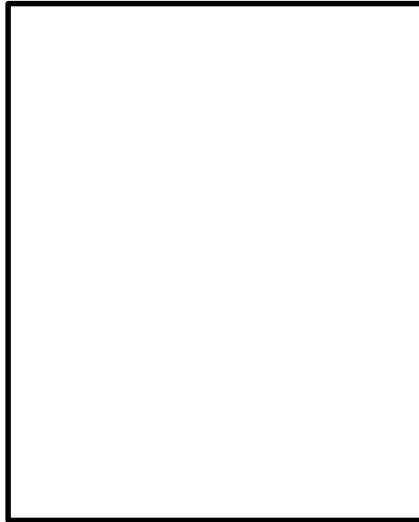
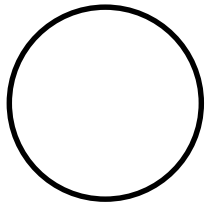
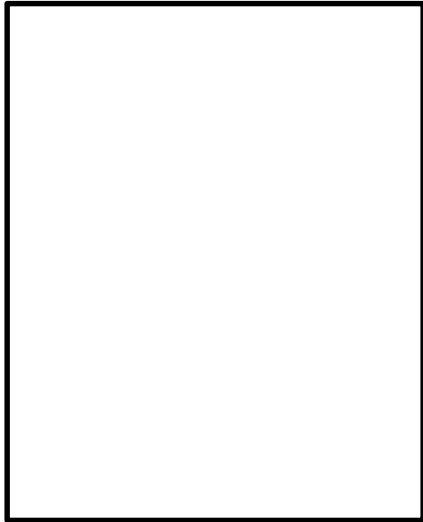


Work Space



Comparing Fractions

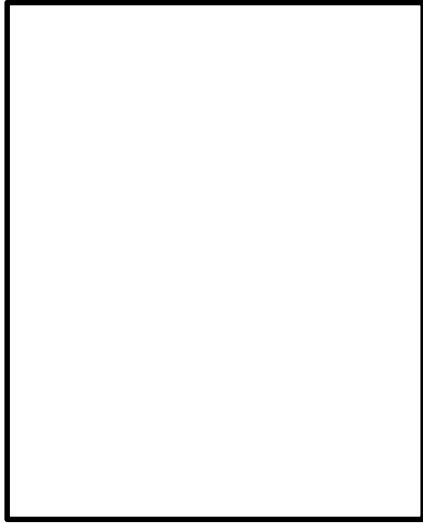
Directions: Use the number cards to create two proper fractions. Compare the fractions using $<$, $>$, or $=$.




Work Space

Adding Fractions

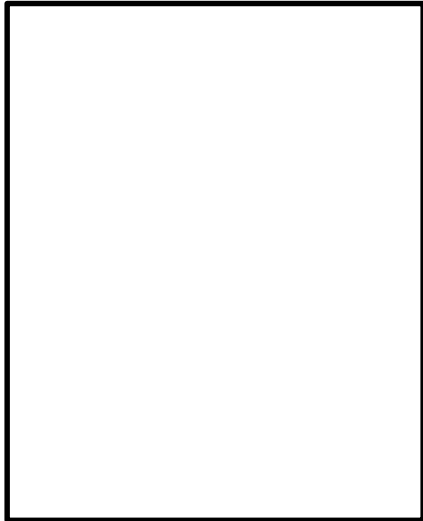
Directions: Use the number cards to create two proper fractions. Add the fractions. Record your answer in simplest form.



+



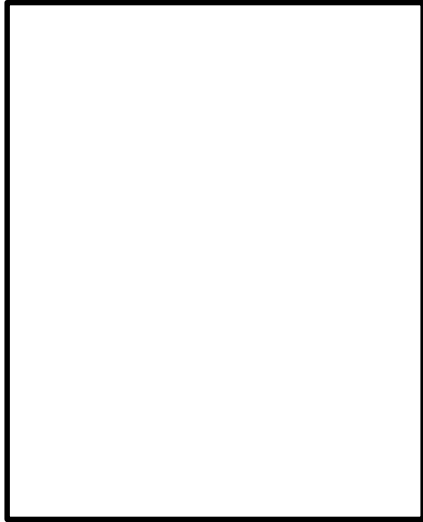
=



Work Space

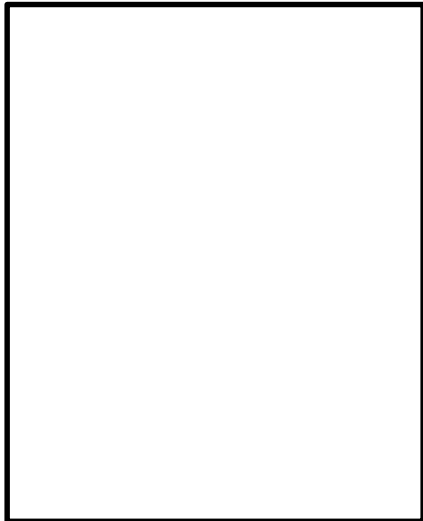
Subtracting Fractions

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

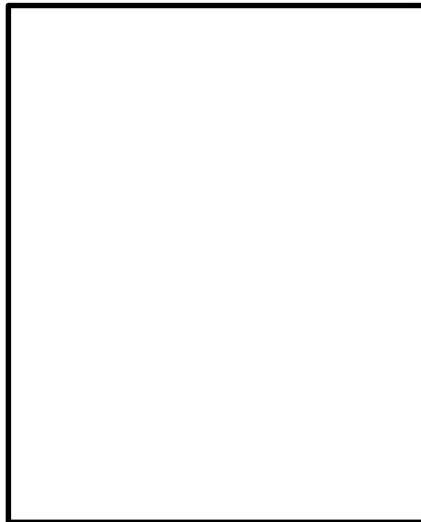
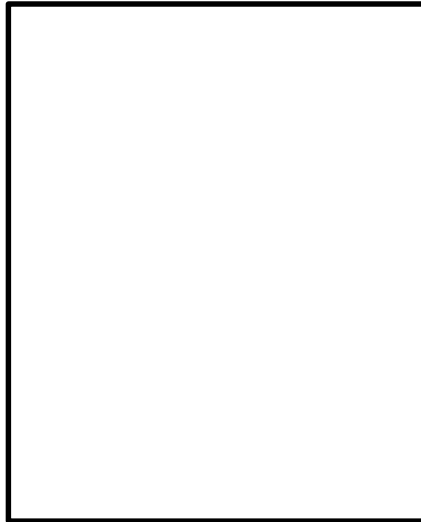
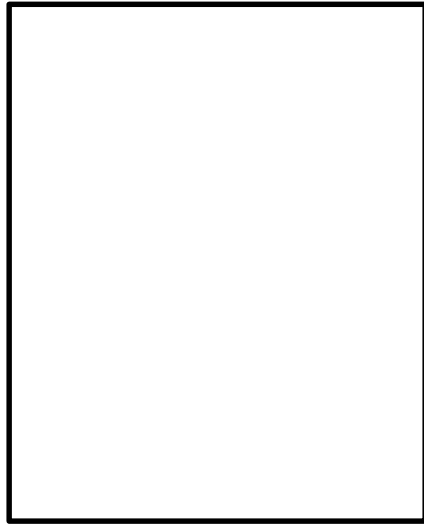
Adding Mixed Numbers

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

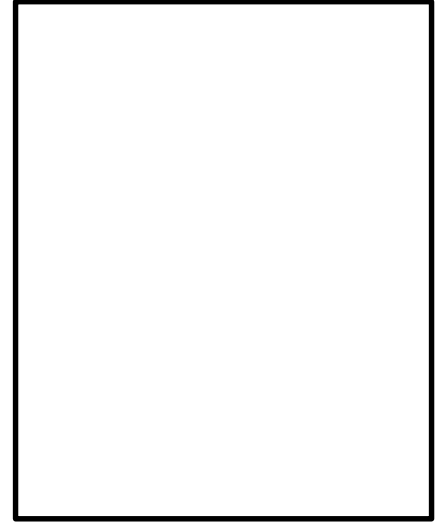
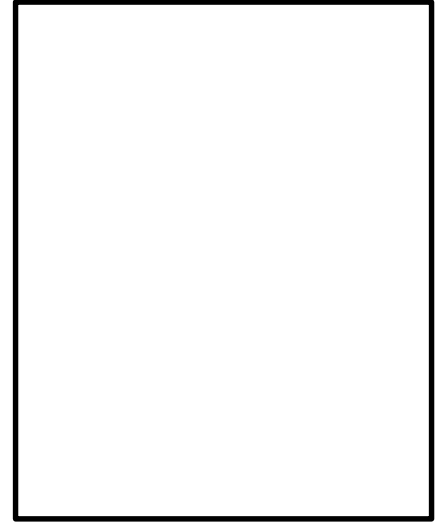
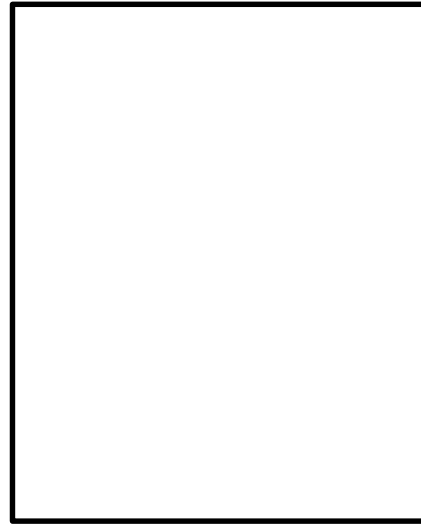
		+	

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.



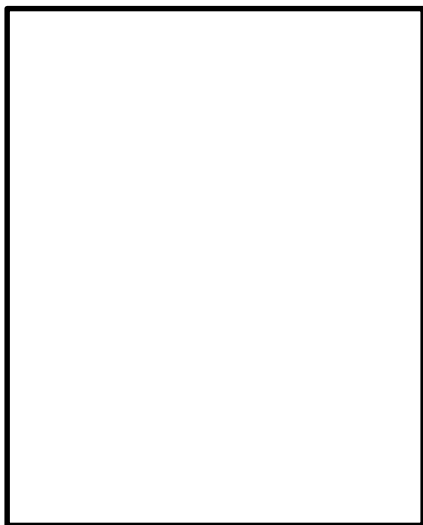
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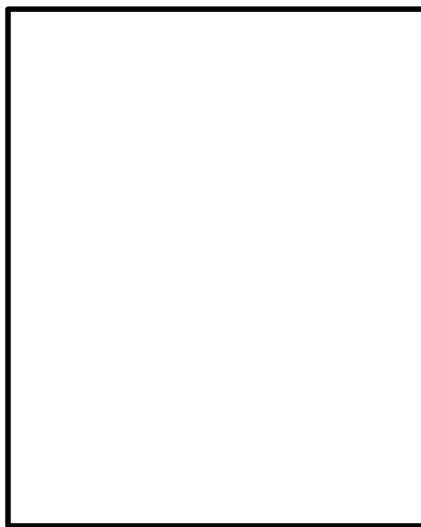
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Multiplying Fractions by Whole Numbers

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



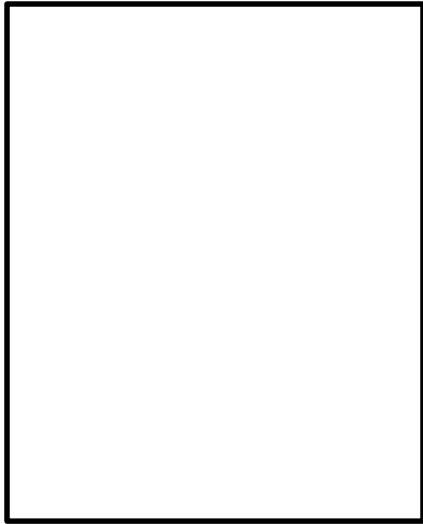
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Work Space



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.



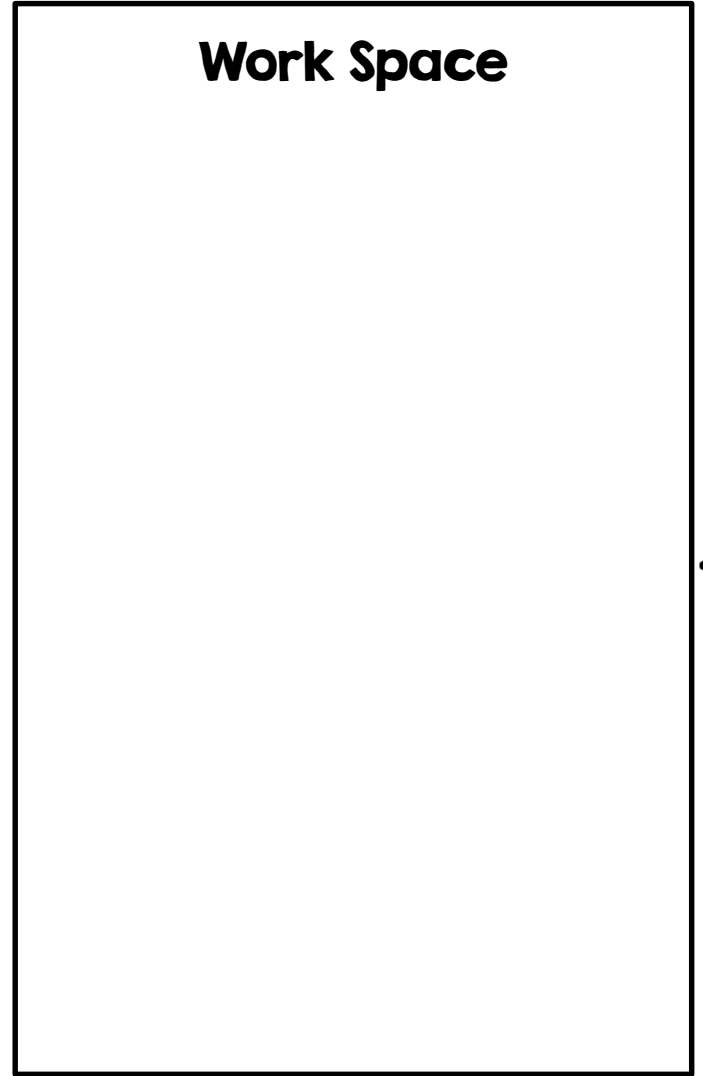
x



=

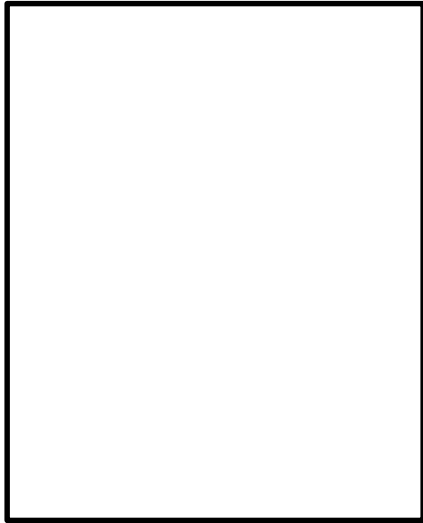


Work Space



Multiplying Fractions

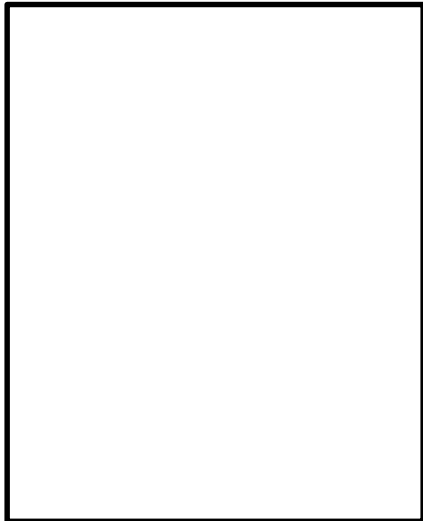
Directions: Use the number cards to create two proper fractions. Multiply the fractions. Record your answer in simplest form.



x



=



Work Space

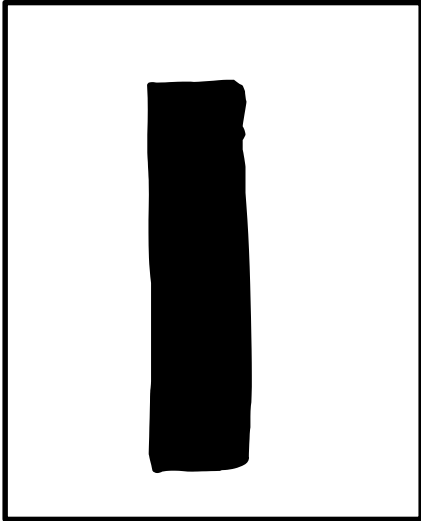
Multiplying Mixed Numbers

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

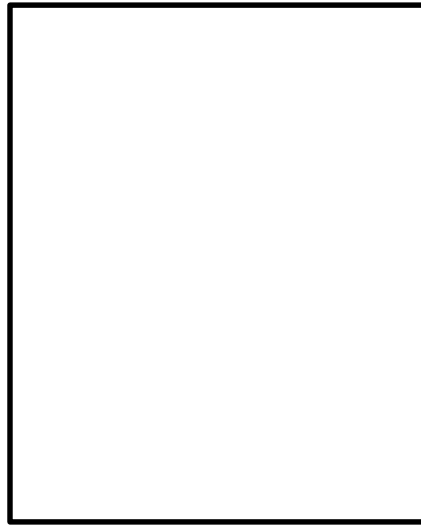
The worksheet contains a large equation template for multiplying mixed numbers. It consists of five empty rectangular boxes arranged in a sequence: a large box on the left, followed by a vertical fraction bar, a box for the numerator, a box for the denominator, a large multiplication sign (**x**), another vertical fraction bar, a box for the numerator, a box for the denominator, a large equals sign (**=**), and a final large box for the answer.

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.

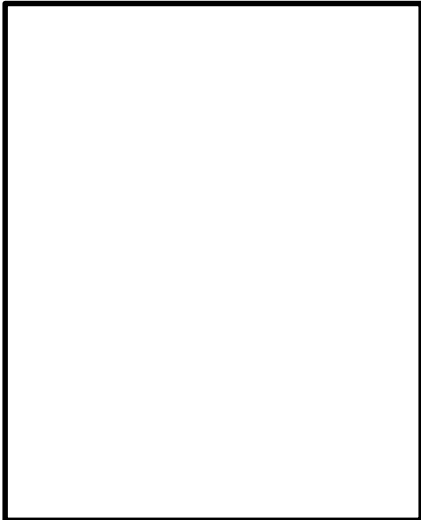


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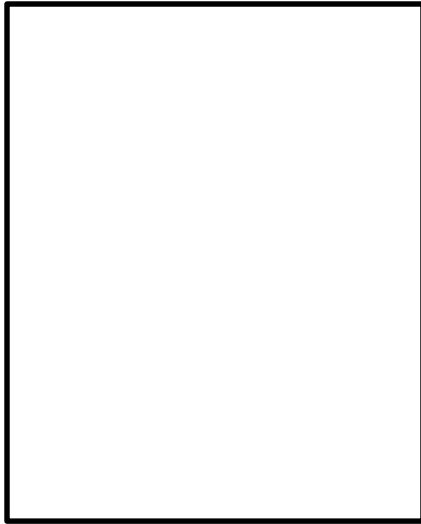
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Work Space

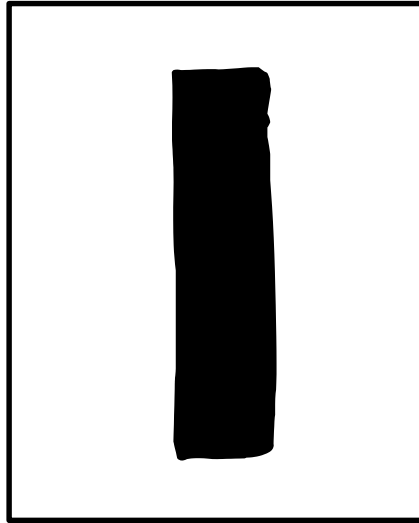


Dividing Whole Numbers by Unit Fractions


Directions: Use the number cards to finish the unit fraction and create a whole number. Divide the whole number by the fraction.



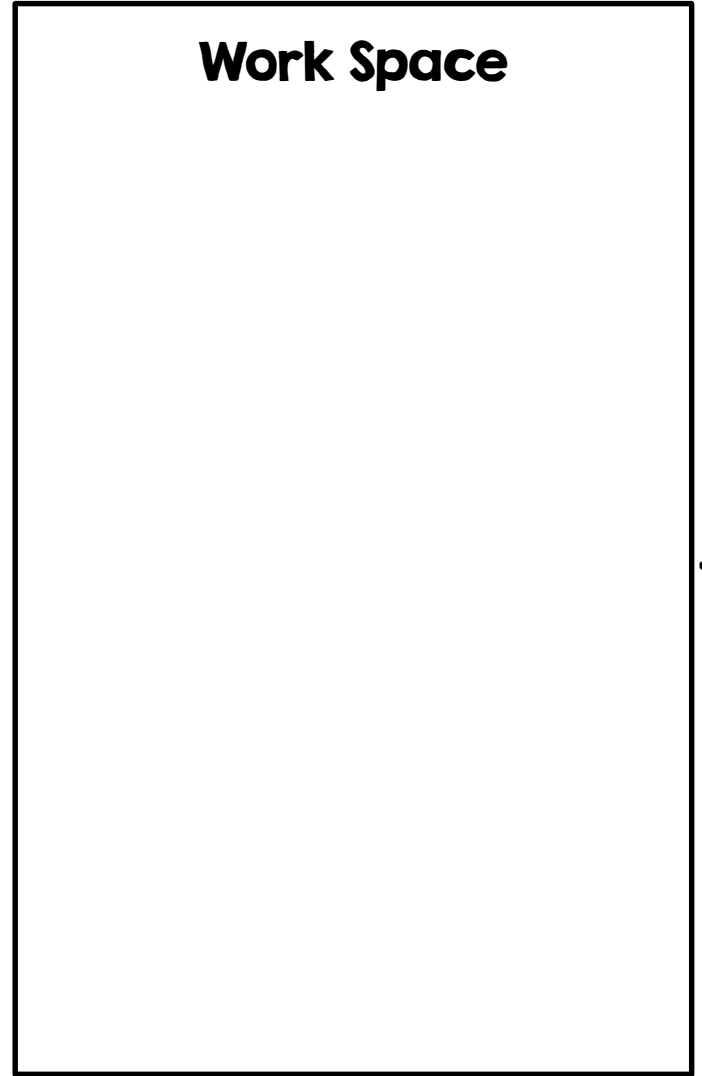
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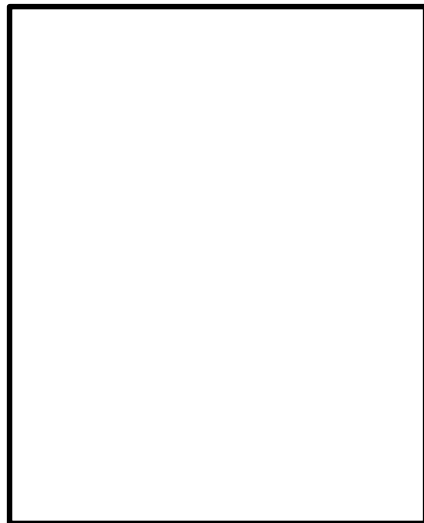
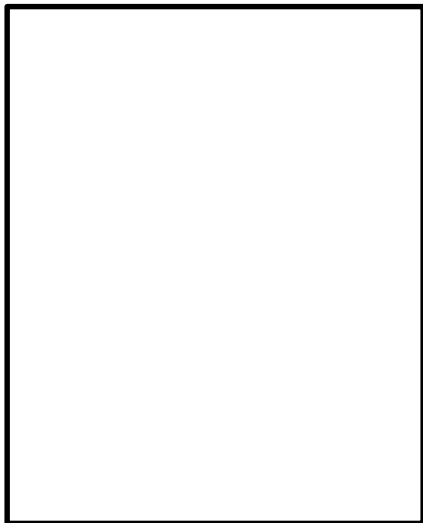


Work Space



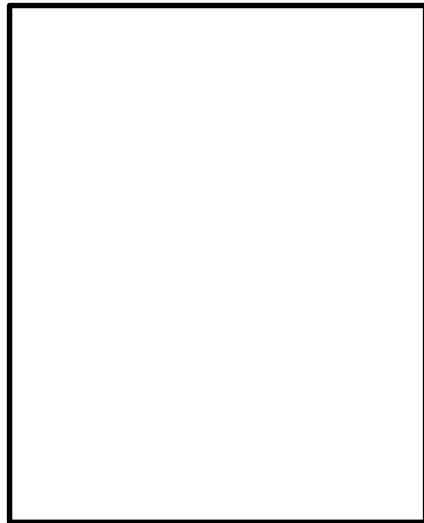
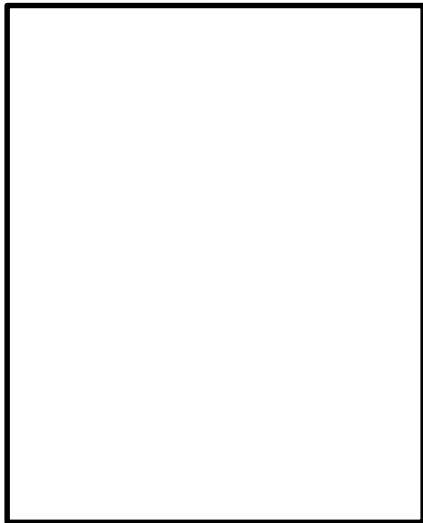
Dividing Fractions

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



\div

$=$



Work Space

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Thanks!
Jennifer Findley

