

# ADDING FRACTIONS

Special Ed



ALSO INCLUDES GOOGLE SLIDES



*This unit was created with this guy in mind. He has autism and an intellectual disability. He is a non-reader and lacks many prerequisite math skills needed for math. With some support, he is able to do this unit and enjoys the challenge. He is my tester!!*



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In a separate files:

- Lesson plans
- Directions and links to digital version of the activities

This unit contains over 100 pages of material. But, don't worry!! I have included a **15 day lesson plan** to help you make the most of everything packed in this unit.

# Adding Fractions Lesson Plan

## Preparation

- Print out a vocabulary board for each student to use throughout unit
  - Laminate or place in page protector
- Vocabulary cards
  - Print out a set of cards for each student onto cardstock and laminate
  - Used for daily activities
- Book
  - Print out, laminate, and bind
  - OR your students can listen to the pre-recorded version
  - I highly recommend using the movie version of the book (see direction for digital activities for link) since it is animated and narrated
- Fraction cards
  - Print out a set of fraction cards onto cardstock and laminate

## Preassessment (do day 1 before starting lesson)

- Use the quiz as the preassessment
- I cannot emphasize enough how important this step is. If you want to see growth, this preassessment is so important!!

## Teaching Tips

1. *Color Coding:* this is a really easy way to add more structure to a matching activity. Outline or color in an empty box or sorting label. Outline or color in the corresponding picture symbols the same colors. Becomes a color matching task.
  - a. For more info, read more here:  
<https://specialneedsforspecialkids.org/2015/09/05/using-color-coding-for-differentiation/>
  - b. I also have a blog post on differentiating one activity 3 ways:  
<https://specialneedsforspecialkids.org/2018/10/22/differentiating-1-activity-3-ways-easily-and-effectively/>
2. *Make you own copies of the activities:* Every day I review the activity we did yesterday. For that reason:
  - a. I often complete the activity myself and often laminated it for easy review that I could use year after year.

The lesson plans contain:  
  
Overall tips for teaching students with significant needs and who may lack some pre-requisite skills.



## Quick Look

| Day | Activity   | Day | Activity   |
|-----|--|-----|--|
| 1   | <ul style="list-style-type: none"><li>• Book</li><li>• Vocabulary cards intro</li><li>• Power card introduction</li><li>• Sorting activity</li></ul> | 9   | <ul style="list-style-type: none"><li>• Book</li><li>• Vocabulary activity</li><li>• Simplifying fractions</li></ul> |
| 2   | <ul style="list-style-type: none"><li>• Book</li><li>• Vocabulary activity</li><li>• Review power card</li><li>• Sorting activity</li></ul>          | 10  | <ul style="list-style-type: none"><li>• Book</li><li>• Vocabulary activity</li><li>• Simplifying fractions</li></ul> |
| 3   | <ul style="list-style-type: none"><li>• Book</li><li>• Vocabulary activity</li><li>• Review power card</li><li>• Finding LCD</li></ul>               | 11  | <ul style="list-style-type: none"><li>• Book</li><li>• Vocabulary cut and paste</li><li>• Adding fractions</li></ul> |
| 4   | <ul style="list-style-type: none"><li>• Book</li><li>• Vocabulary activity</li><li>• Review power card</li><li>• Finding LCD</li></ul>               | 12  | <ul style="list-style-type: none"><li>• Book</li><li>• Vocabulary cut and paste</li><li>• Adding fractions</li></ul> |
| 5   | <ul style="list-style-type: none"><li>• Book</li><li>• Vocabulary activity</li><li>• Adding numerators</li></ul>                                     | 13  | <ul style="list-style-type: none"><li>• Book</li><li>• Adding fractions</li></ul>                                    |
| 6   | <ul style="list-style-type: none"><li>• Book</li><li>• Vocabulary activity</li><li>• Adding numerators</li></ul>                                     | 14  | <ul style="list-style-type: none"><li>• Book</li><li>• Adding fractions</li></ul>                                    |
| 7   | <ul style="list-style-type: none"><li>• Book</li><li>• Vocabulary activity</li><li>• Simplifying fractions</li></ul>                                 | 15  | <ul style="list-style-type: none"><li>• Quiz</li></ul>   |
| 8   | <ul style="list-style-type: none"><li>• Book</li><li>• Vocabulary activity</li><li>• Simplifying fractions</li></ul>                                 |     |  |

The lesson plans contain:

A quick look at what you will do each day.

## Day 9

| Activity  | Notes   | Materials  |
|---|---|--|
| Read or listen to the movie version of the book | <ul style="list-style-type: none"><li>• Read through the story, asking lots of questions</li><li>• Continue to make connections between book and vocabulary board</li></ul>   | <ul style="list-style-type: none"><li>• Book</li><li>• Vocabulary board</li></ul>  |
| Vocabulary cards Bean Bag Toss (10 minutes)     | <ul style="list-style-type: none"><li>• Glue the cut apart symbols to the paper plates (one on each plate)</li><li>• Arrange them around the room</li><li>• Students toss the bean bag trying to get it to land on a paper plate</li><li>• Students retrieve the paper plate and share the vocabulary card they retrieved</li><li>• <b>Note: you can mix in some fraction cards with the vocabulary cards or just play using the fraction cards</b></li></ul> | <ul style="list-style-type: none"><li>• Vocabulary cards</li><li>• Optional: fraction cards</li><li>• Small paper plates or pieces of construction paper</li><li>• Bean bags</li></ul> |
| Simplifying fractions review (5 minutes)        | <ul style="list-style-type: none"><li>• Review the worksheet completed yesterday</li></ul>  | <ul style="list-style-type: none"><li>• Simplifying fractions worksheet</li></ul>  |
| Simplifying fractions (15 minutes)              | <ul style="list-style-type: none"><li>• Do 1-2 worksheets in set 3<ul style="list-style-type: none"><li>◦ Students will fill simplify the fraction</li><li>◦ The last 3 practice simplifying improper fractions</li><li>◦ There are more worksheets in this set than you will need, so move a pace appropriate for your students</li></ul></li><li>• Allow access to and reference power card</li></ul>   | <ul style="list-style-type: none"><li>• Worksheet</li><li>• Power card (simplifying)</li></ul>   |
| Sharing (10 minutes)                            | <ul style="list-style-type: none"><li>• Each student shares one of their finished worksheets with the group using the communication method of their choice</li></ul>  | <ul style="list-style-type: none"><li>• Completed worksheets</li><li>• Communication devices</li></ul>   |

# 1

The lesson plans contain:

Detailed instructions on how that day's lesson should run including group and individual activities.

# 3



Now that we know the different types of fractions, let's look at the three steps we will follow to add two or more fractions together.

1. Find a common denominator
2. Add the numerators
3. Simplify if needed



### Step 3

A fraction is in its simplest form when:

1. There is no whole number that the numerator and denominator can be divided by evenly.
2. It is a proper fraction.

$$\frac{5}{6}$$

There is no number other than 1 that both 5 and 6 can be divided by. ✓

It is a proper fraction. ✓

$\frac{5}{6}$  is in the simplest form.

*This unit contains a book that is 34 pages and covers the steps of adding fractions with and without common denominators as well as simplifying your answer. It comes in a pdf version as well as an mp4 version that is animated and narrated.*



This unit comes with a vocabulary board.

Vocabulary boards are great for ALL students to assist with participation and engagement in group discussions.

Tips on how to use in the unit!!

|                              |   |  |                           |                      |
|------------------------------|---|--|---------------------------|----------------------|
| <br>fraction                 | $\frac{1}{2}$ (with '1' circled)<br>numerator | $\frac{1}{2}$ (with '2' circled)<br>denominator                    | <br>quantity              | #<br>number          |
| <br>least common denominator | <br>least                                     | <br>multiples  | $\frac{+}{-}$<br>simplify | X<br>factors         |
| <br>proper fraction          | <br>improper fraction                         | $2\frac{\text{green square}}{\text{red square}}$<br>mixed fraction | <br>like fractions        | <br>unlike fractions |
| <br>repeat that              | <br>yes                                       | <br>no   | <br>I don't know          | <br>I need a break   |

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**numerator**

The number on top of a fraction.

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

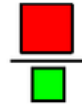
**denominator**

The number on the bottom of a fraction.

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

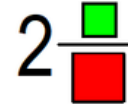
**improper fraction**

When the numerator is larger than the denominator.



**mixed number**

Number made up of a whole number and a fraction.



**multiples**

All the products when numbers are multiplied by the numerator.

$$2 \times 3 = 6$$

**factors**

All the numbers multiplied by another number to get the numerator or denominator

$$2 \times 3 = 6$$

**simplified**

When the fraction is a proper fraction with no common factors between the numerator and denominator.



**greatest common factor**

Largest factor the numerator and denominator have in common.

**GCF**

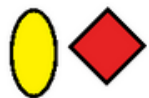
**like fractions**

Fractions with the same denominator.



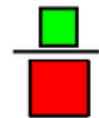
**unlike fractions**

Fractions with different denominators.



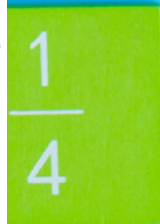
**proper fraction**

Fraction where the numerator is smaller than the denominator.



There are 11 vocabulary cards that come in color and black and white.

Included are suggestions for group activities to do with these each day.



**numerator**

The number on top of a fraction.



**denominator**

The number on the bottom of a fraction.



**multiples**

All the products when numbers are multiplied by the numerator.



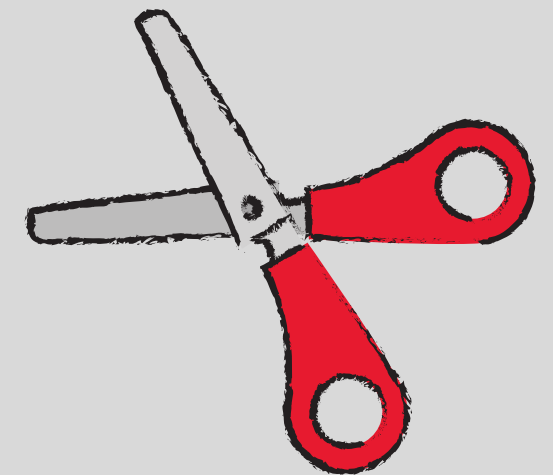
**factors**

All the numbers multiplied by another number to get the numerator or denominator



|               |                 |                  |                  |
|---------------|-----------------|------------------|------------------|
|               | $\frac{1}{4}$   |                  | $2 \times 3 = 6$ |
| GCF           | $2 \frac{1}{2}$ | $2 \times 3 = 6$ |                  |
| $\frac{1}{4}$ |                 |                  |                  |

There is an activity where students will match either the picture to the definition or the definition to the picture (harder).



**greatest common factor**



GCF

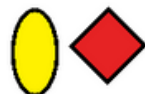
**like fractions**



The number on the bottom of a fraction.

Number made up of a whole number and a fraction.

**unlike fractions**



**proper fraction**



are

Fractions with different denominators.

$\frac{1}{5}$

$\frac{1}{2}$



Step by step cards for adding fractions. Made to fit on 4x6 index card.

- Print on cardstock and laminate
- Glue together back-to-back

### Adding fractions

1. Find the least common denominator
2. Add numerators, keep denominators same
3. Simply if needed

**Example:**  $\frac{1}{3}$  and  $\frac{2}{6}$

1  $\left. \begin{array}{l} 3 \times 1 = 3 \quad 6 \times 1 = 6 \\ 3 \times 2 = 6 \quad 6 \times 2 = 12 \\ 3 \times 3 = 9 \quad 6 \times 3 = 18 \end{array} \right\} \frac{2}{6} \text{ and } \frac{2}{6}$

2  $\frac{2}{6} + \frac{2}{6} = \frac{4}{12}$

3  $\frac{4}{12} \div \frac{4}{4} = \frac{1}{3}$

Step by step cards for simplifying a mixed number. Made to fit on 4x6 index card.

- Print on cardstock and laminate
- Glue together back-to-back

### Simplify an Improper Fraction

1. Divide the numerator by the denominator
2. Write down the largest whole number you get.
3. Place the remainder in the numerator.
4. Keep the denominator the same

**Example:**  $\frac{9}{5}$

1  $5 \overline{)9} \longrightarrow$  2 1

$5 \overline{)9} \longrightarrow$  4  $1 \frac{4}{5}$

3  $\frac{5}{4}$

There are 2 power cards that outline the steps for adding fractions and one for the steps on simplifying fractions. They can use when working through problems.

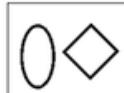
|               |               |                |
|---------------|---------------|----------------|
| $\frac{1}{2}$ | $\frac{1}{3}$ | $\frac{1}{4}$  |
| $\frac{1}{5}$ | $\frac{1}{6}$ | $\frac{1}{7}$  |
| $\frac{1}{8}$ | $\frac{1}{9}$ | $\frac{1}{10}$ |
| $\frac{2}{3}$ | $\frac{2}{4}$ | $\frac{3}{4}$  |
| $\frac{2}{5}$ | $\frac{3}{5}$ | $\frac{4}{5}$  |
| $\frac{2}{6}$ | $\frac{3}{6}$ | $\frac{4}{6}$  |
| $\frac{5}{6}$ | $\frac{2}{7}$ | $\frac{3}{7}$  |
| $\frac{4}{7}$ | $\frac{5}{7}$ | $\frac{6}{7}$  |

There are a set of fraction cards used for group activities and extra practice.





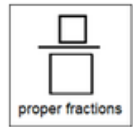
like fractions



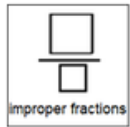
unlike fractions

|                |                 |                |                |                |                |
|----------------|-----------------|----------------|----------------|----------------|----------------|
| $\frac{6}{7}$  | $\frac{3}{7}$   | $\frac{1}{4}$  | $\frac{1}{2}$  | $\frac{3}{5}$  | $\frac{1}{5}$  |
| $\frac{8}{10}$ | $\frac{10}{11}$ | $\frac{4}{5}$  | $\frac{5}{7}$  | $\frac{3}{4}$  | $\frac{1}{4}$  |
| $\frac{5}{10}$ | $\frac{1}{10}$  | $\frac{1}{12}$ | $\frac{1}{15}$ | $\frac{5}{6}$  | $\frac{5}{6}$  |
| $\frac{1}{3}$  | $\frac{1}{2}$   | $\frac{7}{9}$  | $\frac{5}{9}$  | $\frac{1}{3}$  | $\frac{2}{3}$  |
| $\frac{6}{8}$  | $\frac{3}{8}$   | $\frac{4}{11}$ | $\frac{2}{11}$ | $\frac{4}{5}$  | $\frac{4}{7}$  |
| $\frac{1}{8}$  | $\frac{8}{12}$  | $\frac{5}{15}$ | $\frac{3}{15}$ | $\frac{4}{21}$ | $\frac{7}{21}$ |

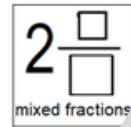
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proper fractions



improper fractions



mixed fractions

|                |                |                |                |                 |
|----------------|----------------|----------------|----------------|-----------------|
| $\frac{6}{7}$  | $\frac{3}{8}$  | $\frac{2}{2}$  | $\frac{3}{5}$  | $\frac{4}{9}$   |
| $\frac{4}{3}$  | $2\frac{1}{2}$ | $\frac{7}{9}$  | $1\frac{3}{4}$ | $\frac{11}{12}$ |
| $\frac{6}{12}$ | $2\frac{1}{5}$ | $\frac{3}{7}$  | $1\frac{3}{4}$ | $\frac{11}{12}$ |
| $1\frac{7}{8}$ | $2\frac{1}{3}$ | $\frac{5}{7}$  | $1\frac{3}{4}$ | $\frac{11}{12}$ |
| $3\frac{3}{6}$ | $5\frac{1}{3}$ | $\frac{7}{9}$  | $1\frac{3}{4}$ | $\frac{11}{12}$ |
| $\frac{6}{2}$  | $2\frac{1}{3}$ | $\frac{7}{10}$ | $4\frac{1}{5}$ |                 |

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There are 2 sorting activities. Suggestions for differentiation are included.

1. List out the multiples for each denominator.
2. Circle the **least** common denominator in each set of multiples.

$$\frac{2}{3}$$

$$\frac{3}{2}$$

$$3 \times 1 = \underline{\quad}$$

$$3 \times 2 = \underline{\quad}$$

$$3 \times 3 = \underline{\quad}$$

$$3 \times 4 = \underline{\quad}$$

$$3 \times 5 = \underline{\quad}$$

$$2 \times 1 = \underline{\quad}$$

$$2 \times 2 = \underline{\quad}$$

$$2 \times 3 = \underline{\quad}$$

$$2 \times 4 = \underline{\quad}$$

$$2 \times 5 = \underline{\quad}$$

$$\frac{7}{6}$$

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

$$6 \times 1 = \underline{\quad}$$

$$6 \times 2 = \underline{\quad}$$

$$6 \times 3 = \underline{\quad}$$

$$6 \times 4 = \underline{\quad}$$

$$6 \times 5 = \underline{\quad}$$

$$4 \times 1 = \underline{\quad}$$

$$4 \times 2 = \underline{\quad}$$

$$4 \times 3 = \underline{\quad}$$

$$4 \times 4 = \underline{\quad}$$

$$4 \times 5 = \underline{\quad}$$

1. List out the multiples for each denominator.
2. Circle the **least** common denominator in each set of multiples.

$$\frac{7}{5}$$

$$\frac{3}{10}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\frac{2}{5}$$

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

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

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$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

There are 4 worksheet sets that practice a specific step in the process of adding fractions.

This is set 1 and has 3 worksheets where students find the LCD by listing the multiples.



1. Solve the problem by adding the numerators.
2. Circle yes or no for each question..

$$\frac{2}{3} + \frac{4}{3} = \square$$

Proper fraction?  yes  no

Needs to be simplified?  yes  no

$$\frac{2}{6} + \frac{3}{6} = \square$$

Proper fraction?  yes  no

Needs to be simplified?  yes  no

$$\frac{5}{8} + \frac{6}{8} = \square$$

Proper fraction?  yes  no

Needs to be simplified?  yes  no

$$\frac{1}{2} + \frac{1}{2} = \square$$

Proper fraction?  yes  no

Needs to be simplified?  yes  no

1. Solve the problem by adding the numerators.
2. Circle yes or no for each question..

$$\frac{7}{10} + \frac{4}{10} = \square$$

Proper fraction?  yes  no

Needs to be simplified?  yes  no

$$\frac{2}{8} + \frac{2}{8} = \square$$

Proper fraction?  yes  no

Needs to be simplified?  yes  no

$$\frac{5}{15} + \frac{6}{15} = \square$$

Proper fraction?  yes  no

Needs to be simplified?  yes  no

$$\frac{3}{4} + \frac{2}{4} = \square$$

Proper fraction?  yes  no

Needs to be simplified?  yes  no

The second set has 3 worksheets, and students add fractions with like denominators and answer some simple questions about their answer.

Simplify the following proper fractions by determining the greatest common factor.

$$\frac{8}{12} \xrightarrow{\begin{array}{l} \div \square \\ \div \square \end{array}} \square$$

Factors of 8:  $\square \times \square$   
 $\square \times \square$

Factors of 12:  $\square \times \square$   
 $\square \times \square$   
 $\square \times \square$

GCF =  $\square$

$$\frac{6}{16} \xrightarrow{\begin{array}{l} \div \square \\ \div \square \end{array}} \square$$

Factors of 6:  $\square \times \square$   
 $\square \times \square$

Factors of 16:  $\square \times \square$   
 $\square \times \square$   
 $\square \times \square$

GCF =  $\square$

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Simplify the following improper fractions by dividing and finding the remainder.

$$\frac{9}{4} \rightarrow 4 \overline{) 9} \rightarrow \begin{array}{l} \square \\ \square \\ \hline \square \end{array} \frac{\square}{4}$$

$$\square = 4 \times \square$$

$$\frac{10}{6} \rightarrow 6 \overline{) 10} \rightarrow \begin{array}{l} \square \\ \square \\ \hline \square \end{array} \frac{\square}{6}$$

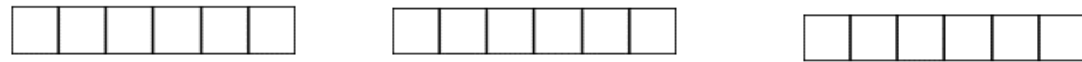
$$\square = 6 \times \square$$

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The third set has 7 worksheets to practice simplifying fractions by finding the greatest common factor. There are 3 that have students simplify proper fractions, and 4 worksheets use improper fractions. There is color-coding present to help support students through the process.



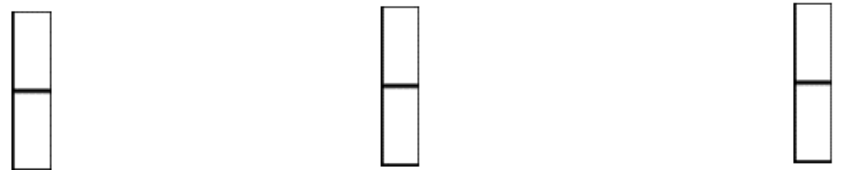
Solve the following problems by coloring in the fraction bars and writing the numerical fraction in the box. All the fractions have the same denominator.



$$\frac{2}{6} + \frac{3}{6} = \square$$



$$\frac{2}{4} + \frac{1}{4} = \square$$



$$\frac{1}{2} + \frac{1}{2} = \square$$



$$\frac{1}{3} + \frac{1}{3} = \square$$

The fourth set has 10 worksheets to practice actually adding fractions. The first two worksheets have students add fractions with like denominators and color in the fraction bars.

1. Find the common denominator.
2. Add the numerators (keep denominator the same).
3. Simplify if needed

$$\frac{2}{3} + \frac{1}{6} = ?$$

- 1
- |                                  |                                  |
|----------------------------------|----------------------------------|
| $3 \times 1 = \underline{\quad}$ | $6 \times 1 = \underline{\quad}$ |
| $3 \times 2 = \underline{\quad}$ | $6 \times 2 = \underline{\quad}$ |
| $3 \times 3 = \underline{\quad}$ | $6 \times 3 = \underline{\quad}$ |
| $3 \times 4 = \underline{\quad}$ | $6 \times 4 = \underline{\quad}$ |
| $3 \times 5 = \underline{\quad}$ | $6 \times 5 = \underline{\quad}$ |

Least common denominator =

- 2 Write new equation and add fractions.

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} = ?$$

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

- 3 Simplify if needed.

The next two worksheets have students add fractions with unlike denominators but do NOT need to be simplified.



1. Find the common denominator.
2. Add the numerators (keep denominator the same).
3. Simplify if needed

$$\frac{1}{2} + \frac{1}{6} = ?$$

- 1
- |                 |                 |
|-----------------|-----------------|
| ___ x ___ = ___ | ___ x ___ = ___ |
| ___ x ___ = ___ | ___ x ___ = ___ |
| ___ x ___ = ___ | ___ x ___ = ___ |
| ___ x ___ = ___ | ___ x ___ = ___ |
| ___ x ___ = ___ | ___ x ___ = ___ |

Least common denominator =

- 2 Write new equation and add fractions.

$$+ =$$

- 3 Simplify if needed.

Factors of numerators:

Factors of Denominators:

greatest common factor =

Final answer =

$$\frac{\div \boxed{\phantom{000}}}{\div \boxed{\phantom{000}}} \rightarrow$$

The next three worksheets have students add fractions with unlike denominators and have PROPER fractions that need to be simplified. Again, there is color-coding to help support students through the process.

1. Find the common denominator.
2. Add the numerators (keep denominator the same).
3. Simplify if needed

$$\frac{5}{8} + \frac{3}{4} = ?$$

1

|                 |                 |
|-----------------|-----------------|
| ___ x ___ = ___ | ___ x ___ = ___ |
| ___ x ___ = ___ | ___ x ___ = ___ |
| ___ x ___ = ___ | ___ x ___ = ___ |
| ___ x ___ = ___ | ___ x ___ = ___ |
| ___ x ___ = ___ | ___ x ___ = ___ |

Least common denominator =

- 2 Write new equation and add fractions.

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

- 3 Simplify if needed.

The last three worksheets have students add fractions with unlike denominators and have IMPROPER fractions that need to be simplified. Again, there is color-coding to help support students through the process.



1. Find the common denominator.
2. Add the numerators (keep denominator the same).
3. Simplify if needed

$$\frac{2}{3} + \frac{1}{2} = ?$$

$$\begin{array}{l} \textcircled{1} \quad \frac{3}{3} \times \frac{1}{2} = \frac{3}{6} \quad \frac{2}{2} \times \frac{1}{2} = \frac{2}{4} \\ \frac{3}{3} \times \frac{2}{3} = \frac{6}{9} \quad \frac{2}{2} \times \frac{2}{2} = \frac{4}{4} \\ \frac{3}{3} \times \frac{3}{3} = \frac{9}{12} \quad \frac{2}{2} \times \frac{3}{2} = \frac{6}{6} \\ \frac{3}{3} \times \frac{4}{3} = \frac{12}{15} \quad \frac{2}{2} \times \frac{4}{2} = \frac{8}{8} \\ \frac{3}{3} \times \frac{5}{3} = \frac{15}{10} \quad \frac{2}{2} \times \frac{5}{2} = \frac{10}{10} \end{array}$$

Least common denominator =

6

- 2 Write new equation and add fractions.

$$\frac{4}{6} + \frac{3}{6} = \frac{7}{6}$$

- 3 Simplify if needed.

$$\frac{\boxed{7}}{\boxed{6}} \longrightarrow \begin{array}{r} \boxed{1} \\ \boxed{6} \overline{) \boxed{7}} \\ \underline{- \boxed{6}} \\ \boxed{1} \end{array} \longrightarrow \frac{\boxed{1}}{\boxed{6}}$$

All worksheets have detailed answer keys.

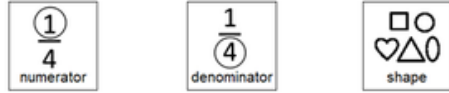
Name: \_\_\_\_\_

### Quiz

1. Circle the fractions below that are proper fractions:

$$\frac{3}{5} \quad \frac{7}{10} \quad \frac{6}{5} \quad \frac{8}{6} \quad \frac{3}{2} \quad \frac{6}{4} \quad \frac{2}{5} \quad \frac{8}{12}$$

2. In order to add fractions, what needs to be the same?



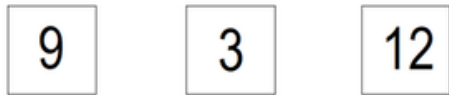
3. Circle the fractions that need to be simplified.

$$\frac{3}{5} \quad \frac{6}{12} \quad \frac{5}{2} \quad \frac{2}{6} \quad \frac{8}{12}$$

4. What is the greatest common factor for 4 and 6?



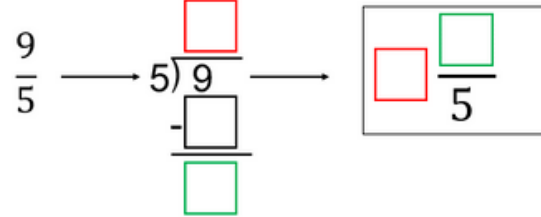
5. What is the greatest common factor for 9 and 24?



6. Add the following fractions:

$$\frac{2}{5} + \frac{1}{5} = \boxed{\phantom{00}}$$

7. Simplify  $\frac{9}{5}$  :



8. Solve the equation below. Show your work.

$$\frac{1}{3} + \frac{1}{2} = ?$$

9. Solve the equation below. Show your work.

$$\frac{2}{8} + \frac{1}{2} = ?$$

10. Solve the equation below. Show your work.

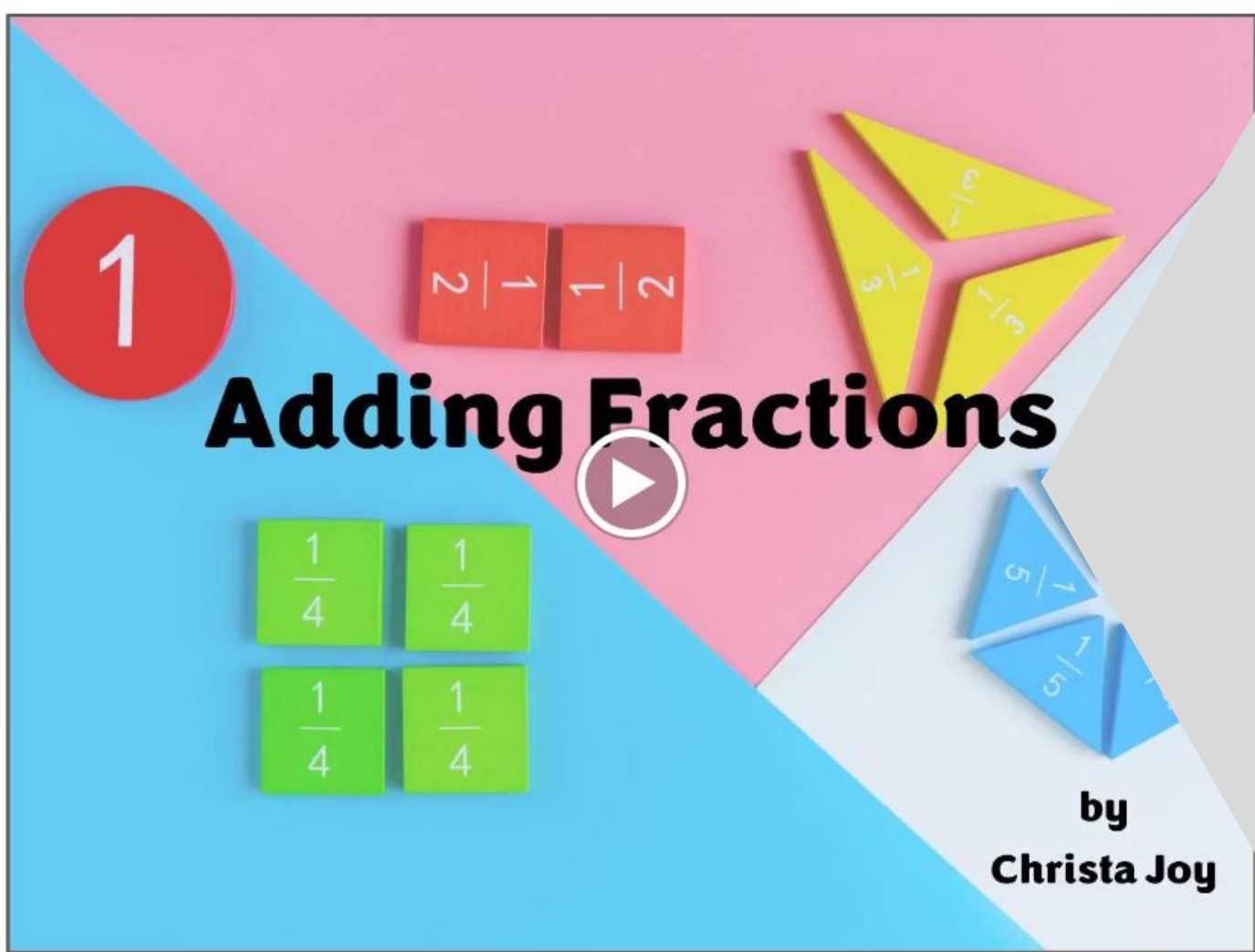
$$\frac{1}{3} + \frac{7}{9} = ?$$

There is a short quiz to use as the assessment.





Watch the  
movie on  
Adding  
Fractions



*This unit includes digital activities. Part of that is a movie version of the book you can play in a google slide. This movie is animated and narrated.*

$$\frac{12}{5} \rightarrow 5 \overline{)12} \rightarrow \begin{array}{r} \square \\ \square \\ \hline \square \end{array} \frac{\square}{5}$$

$$\square = 5 \times \square$$

$$\frac{11}{4} \rightarrow 4 \overline{)11} \rightarrow \begin{array}{r} \square \\ \square \\ \hline \square \end{array} \frac{\square}{4}$$

$$\square = 4 \times \square$$

Simplify the improper fractions by determining the greatest common factor. Type in the missing numbers.

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$$\frac{1}{4} + \frac{5}{10} = ?$$

1

|   |   |  |   |   |  |
|---|---|--|---|---|--|
| x | = |  | x | = |  |
| x | = |  | x | = |  |
| x | = |  | x | = |  |
| x | = |  | x | = |  |
| x | = |  | x | = |  |

Least common denominator =

2 Write new equation and add fractions.

$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$

3 Simplify if needed.

Factors of numerators:

Factors of Denominators:

greatest common factor =

Final answer =  $\frac{\square}{\square} \div \frac{\square}{\square} = \frac{\square}{\square}$

1. Find the common denominator.
2. Add the numerators (keep denominator the same).
3. Simplify if needed

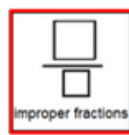
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There are 2 sets of google slides that include a set where students can type in the answers.





proper fractions



improper fractions



mixed fractions

Sort the fractions into the correct column. If you are not sure, place it on the middle line.

|                |                |                 |                |
|----------------|----------------|-----------------|----------------|
| $\frac{6}{7}$  | $\frac{8}{3}$  | $\frac{7}{2}$   | $\frac{3}{4}$  |
| $2\frac{1}{2}$ | $3\frac{4}{5}$ | $\frac{6}{12}$  | $\frac{5}{2}$  |
| $\frac{9}{7}$  | $1\frac{7}{8}$ | $\frac{3}{5}$   | $1\frac{3}{4}$ |
| $3\frac{3}{6}$ | $\frac{3}{2}$  | $\frac{11}{12}$ | $\frac{6}{2}$  |
| $\frac{7}{10}$ | $4\frac{1}{5}$ |                 |                |

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These make a great independent learning center.

One set is differentiated with color and click and drag numbers for students who need more support. In this set, students are NOT typing but clicking and dragging over their answers.

$$\frac{1}{2} + \frac{1}{6} = ?$$

1

|   |   |
|---|---|
| $\frac{2}{2} \times \frac{1}{2} = \frac{2}{4}$  | $\frac{6}{6} \times \frac{1}{6} = \frac{6}{6}$  |
| $\frac{2}{2} \times \frac{3}{6} = \frac{6}{6}$  | $\frac{6}{6} \times \frac{2}{3} = \frac{12}{6}$ |
| $\frac{2}{2} \times \frac{4}{6} = \frac{8}{6}$  | $\frac{6}{6} \times \frac{3}{2} = \frac{18}{6}$ |
| $\frac{2}{2} \times \frac{5}{6} = \frac{10}{6}$ | $\frac{6}{6} \times \frac{4}{2} = \frac{24}{6}$ |
|   | $\frac{6}{6} \times \frac{5}{2} = \frac{30}{6}$ |

Least common denominator =

2 Write new equation and add fractions.

$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

3 Simplify if needed.

Factors of numerators: 1, 2, 4

Factors of Denominators: 1, 2, 3, 6

greatest common factor =

Final answer =

$$\boxed{\phantom{00}} \div \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

1. Find the common denominator.
2. Add the numerators (keep denominator the same).
3. Simplify if needed.

1  2  3  4  5  6  8

10  12  18  24  30

|                      |               |               |               |
|----------------------|---------------|---------------|---------------|
| <input type="text"/> | $\frac{3}{6}$ | $\frac{4}{6}$ | $\frac{1}{6}$ |
|----------------------|---------------|---------------|---------------|

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | $\frac{2}{3}$        |
| <input type="text"/> | <input type="text"/> | <input type="text"/> |

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I realize there will be some students out there unable to do cutting activities. I have a blog post with ways to complete activities without a pair of scissors!!

[Click Here to read more!!](#)