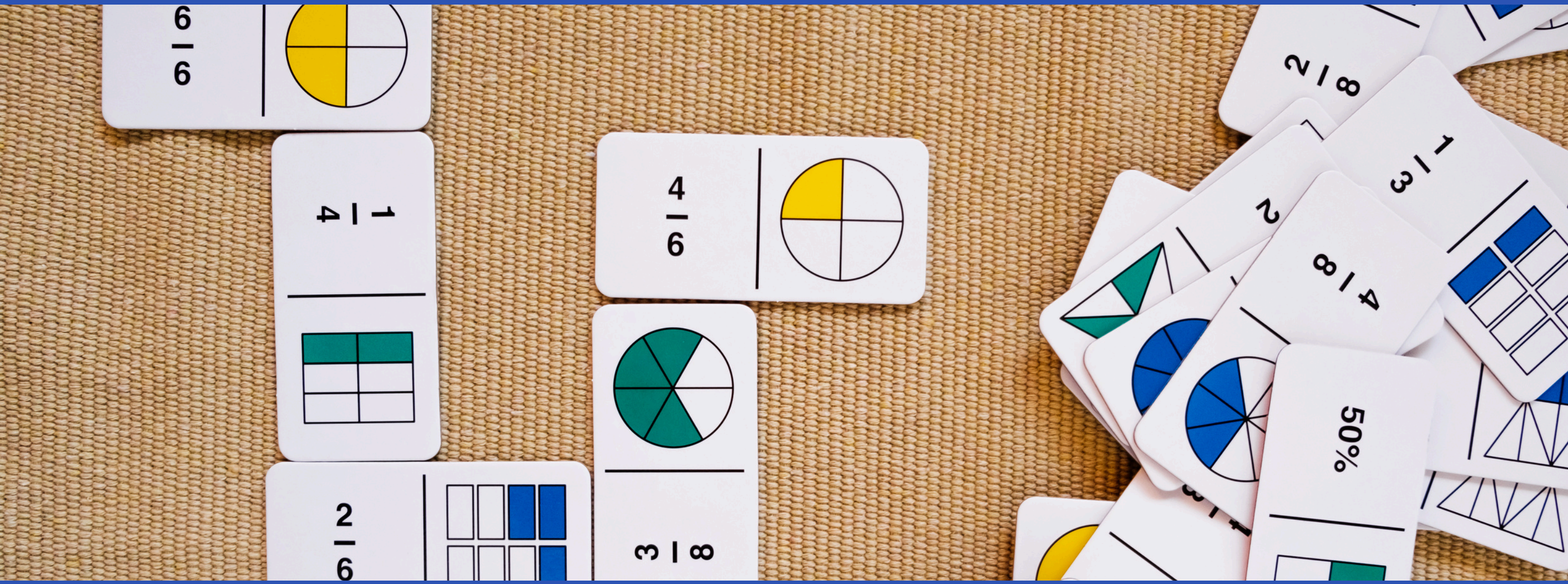
EQUIVALENT FRACTIONS



INCLUDES GOOGLE SLIDES

For students who:

- are emerging or non-readers
- take alternate assessments
- are in special education
- short-attention span
- lack pre-requisite skills
- benefit from the use of pictures for support

Table of Contents

In a separate files:

- Lesson plans
- Directions and links to digital version of the activities
- Adding Fractions book (PowerPoint)
- Activities in color

This unit contains almost 3 weeks of material in print and digital formats. I have included a detailed lesson plan to help you make the most of everything in this unit, including adding some group activities.

This unit comes in 2 separate files, one in color and one in black and white.

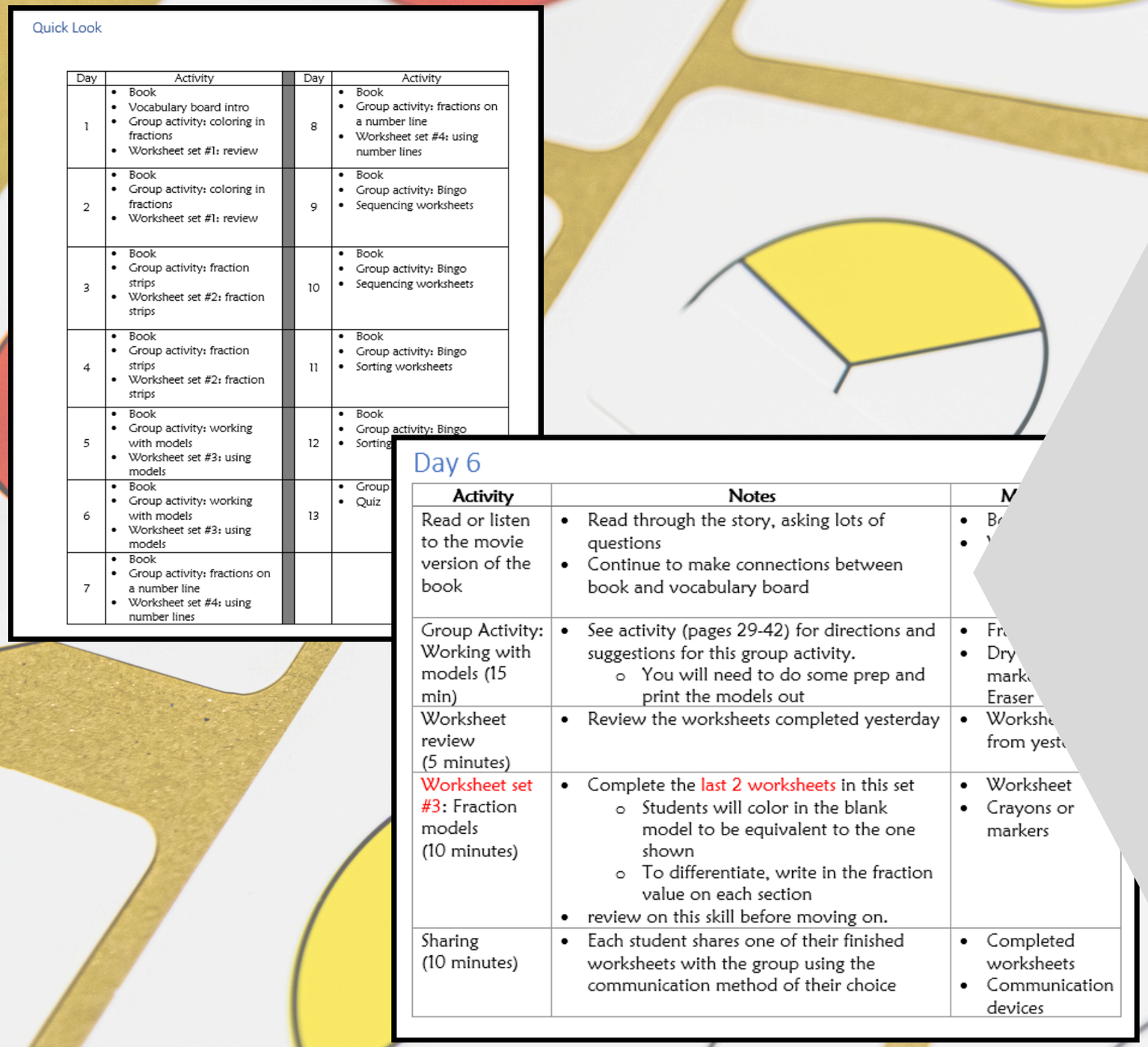
This unit teaches equivalent fractions using models and fraction bars.

It is **scaffolded** to review and slowly build more complex skills relating to equivalent fractions.

1. Reviews basic information about fractions.
2. Equivalent fractions using fraction bars.
3. Equivalent fractions using models.
4. Equivalent fractions using a number line.

There are group and individual daily activities that are in print and digital formats.

Focuses on halves, thirds, fourths, sixths, and eighths



Quick Look

Day	Activity	Day	Activity
1	• Book • Vocabulary board intro • Group activity: coloring in fractions • Worksheet set #1: review	8	• Book • Group activity: fractions on a number line • Worksheet set #4: using number lines
2	• Book • Group activity: coloring in fractions • Worksheet set #1: review	9	• Book • Group activity: Bingo • Sequencing worksheets
3	• Book • Group activity: fraction strips • Worksheet set #2: fraction strips	10	• Book • Group activity: Bingo • Sequencing worksheets
4	• Book • Group activity: fraction strips • Worksheet set #2: fraction strips	11	• Book • Group activity: Bingo • Sorting worksheets
5	• Book • Group activity: working with models • Worksheet set #3: using models	12	• Book • Group activity: Bingo • Sorting
6	• Book • Group activity: working with models • Worksheet set #3: using models	13	• Group • Quiz
7	• Book • Group activity: fractions on a number line • Worksheet set #4: using number lines		

Day 6

Activity	Notes	M
Read or listen to the movie version of the book	• Read through the story, asking lots of questions • Continue to make connections between book and vocabulary board	• Bo •
Group Activity: Working with models (15 min)	• See activity (pages 29-42) for directions and suggestions for this group activity. ○ You will need to do some prep and print the models out	• Fr • Dry mark Eraser
Worksheet review (5 minutes)	• Review the worksheets completed yesterday	• Worksh from yest

Worksheet set #3: Fraction models (10 minutes)	• Complete the last 2 worksheets in this set
	  ○ Students will color in the blank model to be equivalent to the one shown
	  ○ To differentiate, write in the fraction value on each section
	• review on this skill before moving on.
		• Worksheet
		• Crayons or markers

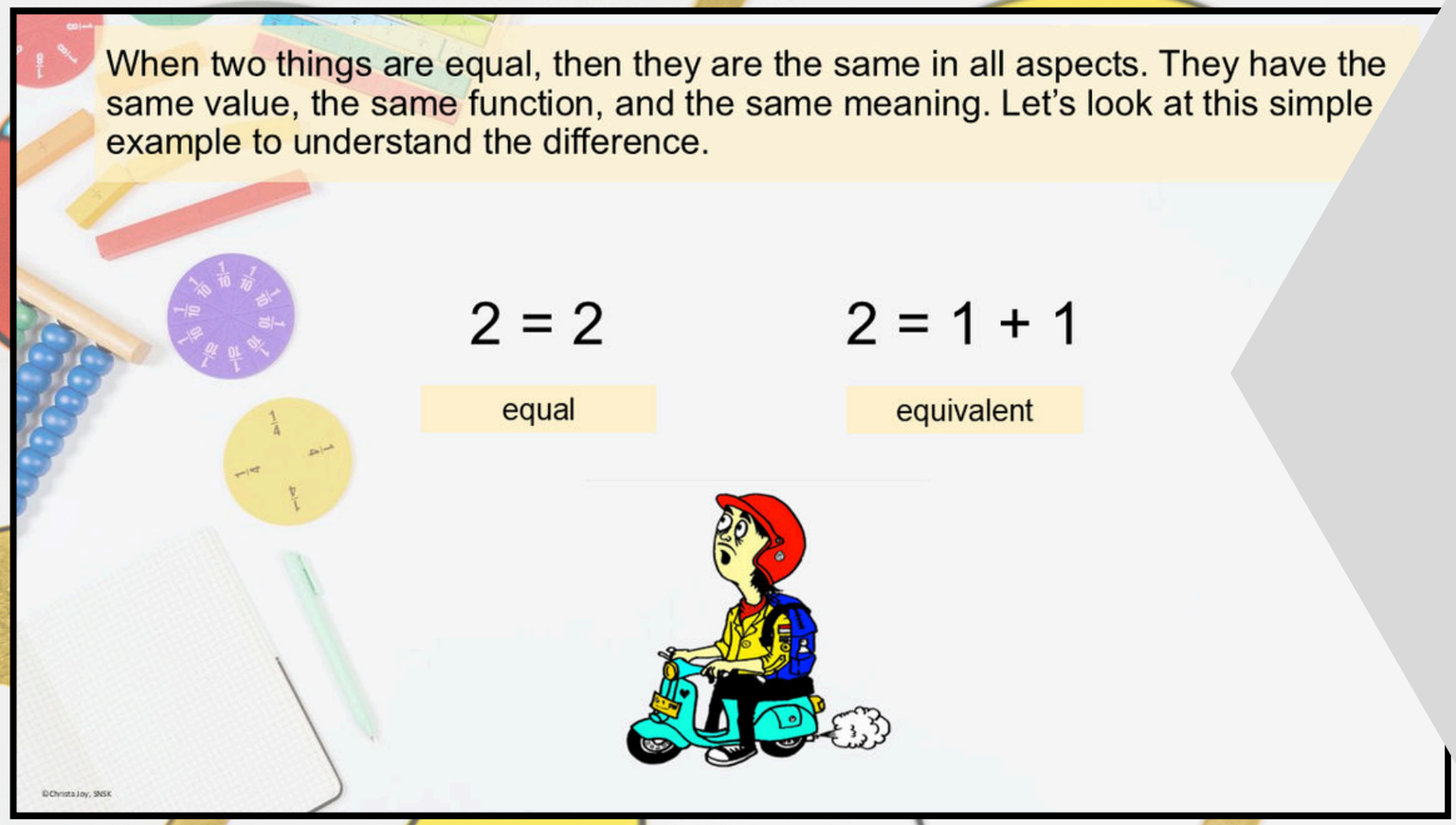
Sharing (10 minutes)	• Each student shares one of their finished worksheets with the group using the communication method of their choice	• Completed worksheets • Communication devices

13 days

The lesson plans contain:

- Overall tips for teaching students with significant needs
- A quick look at what you will do each day
- Detailed instructions on how that day's lesson should run

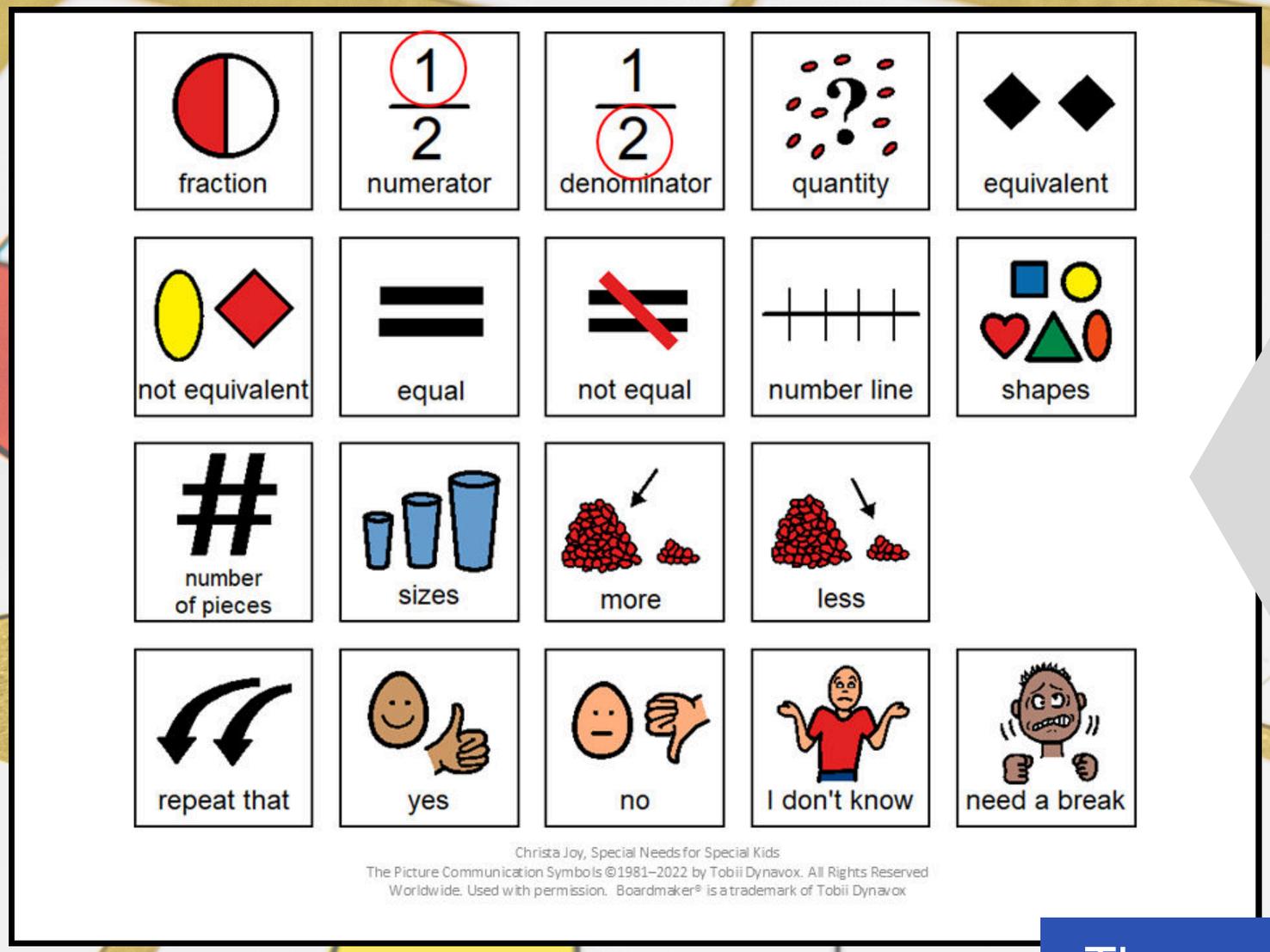
PowerPoint



This unit contains a 20-page book covering equivalent fractions and ways to work with them.

It comes as:

- PowerPoint
- mp4 version that is animated and narrated



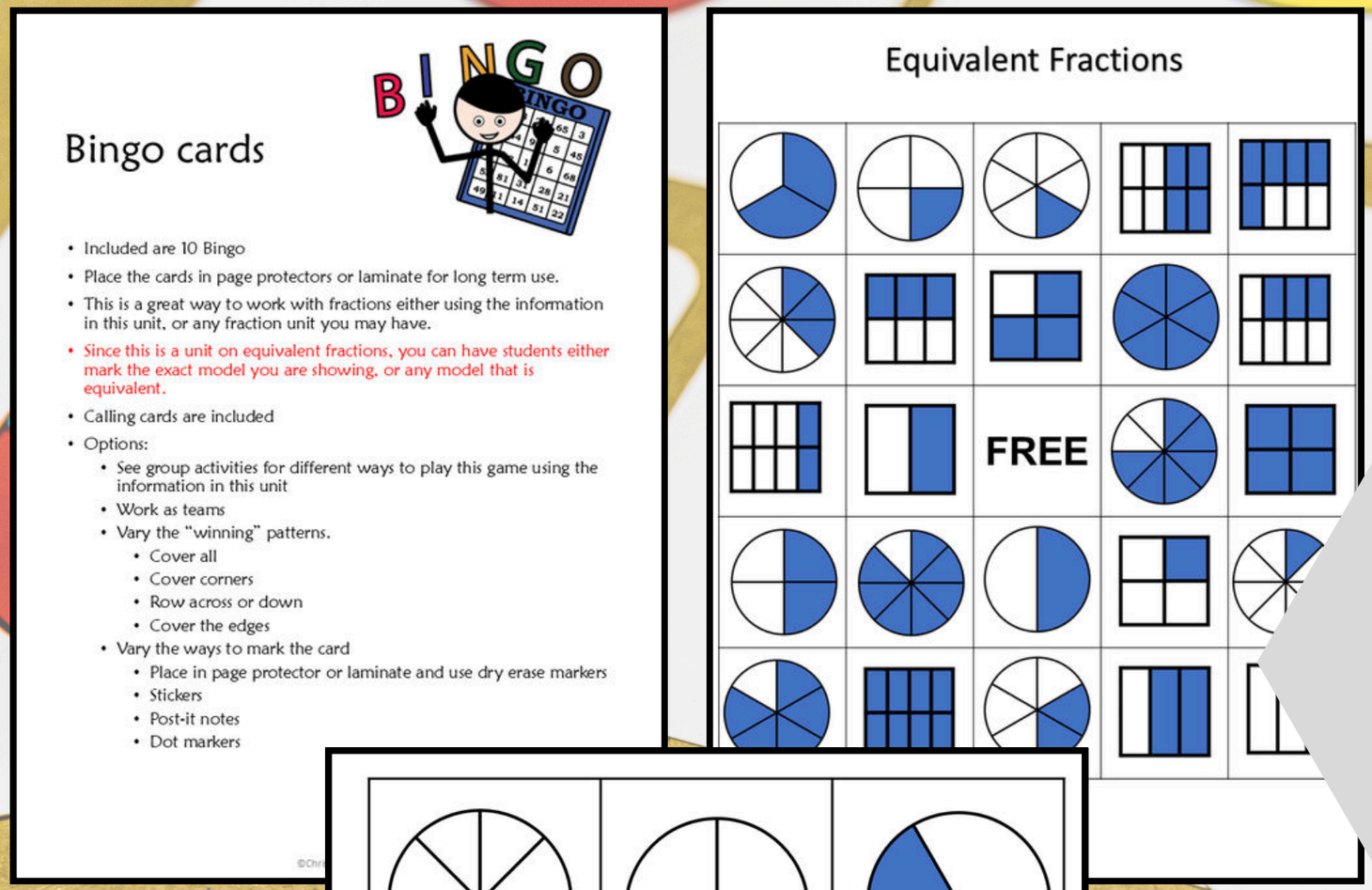
This unit comes with a vocabulary board.

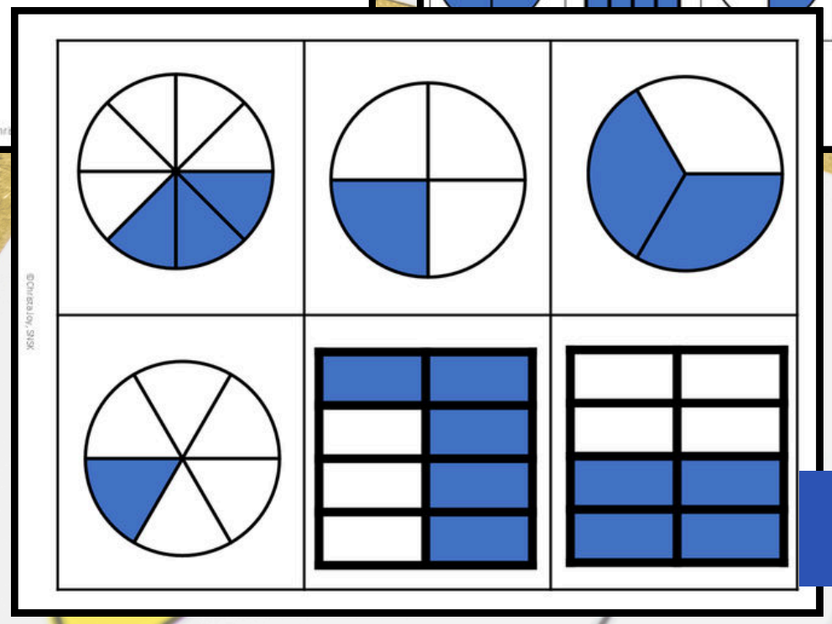
Vocabulary boards are great for ALL students to assist with **participation and engagement** in group discussions.

Tips on how to use in the unit!!

There are no vocabulary cards in this unit

Group activity #1





There are Bingo cards included. You can have students find equivalent fractions when playing.

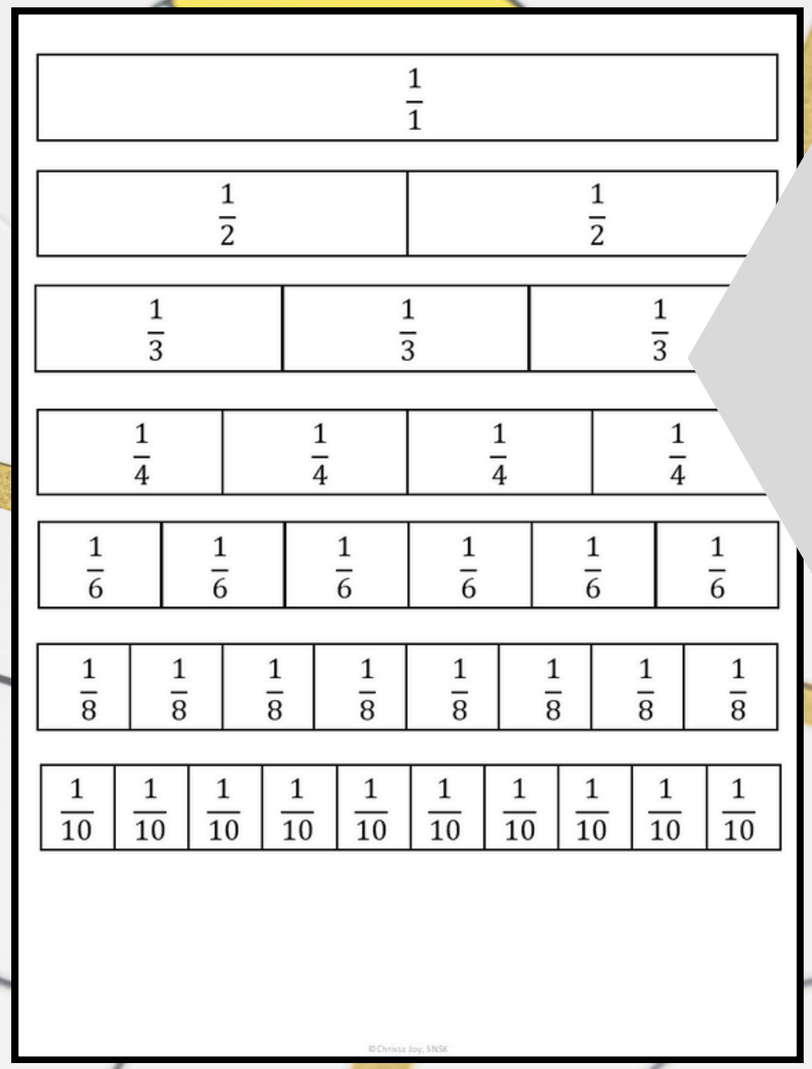
More suggestions on how to use these cards are included.

calling cards included

Group activity #2

Fraction Bars

- Included:
  - Labeled fraction bars (7 sizes)
  - Blank fraction bars (7 sizes)
- Preparation
  - Ideally make one set for each student
  - Print on cardstock
  - Laminate
    - For durability
    - To color in using dry erase markers
- Activity Ideas
  1. Give students a fraction bar that you have colored and a blank fraction bar that has a different set of pieces. Students will color in their blank fraction bar (with dry erase markers) so the two are equivalent.
  2. Pass out a colored fraction bar to each student and have them find another student who has an equivalent fraction bar.
  3. Give student a fraction bar and a piece of play-do. Have them make the shape with the play-do and cut it into the same number of pieces (using a popsicle stick). Have students "mark" the colored sections on the card by marking the same sections in the play-do. They can use a thumbprint, stamp, or other object to make an impression in the play-do.
  4. Have students write the fraction represented by the colored in area.

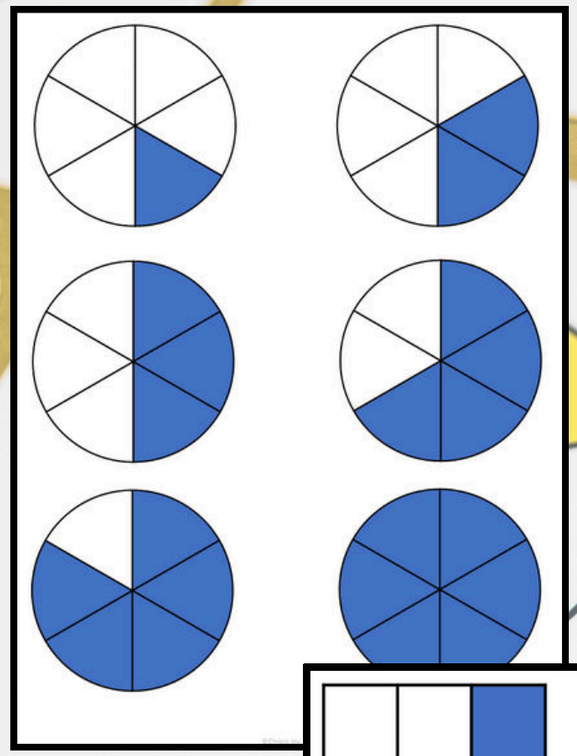


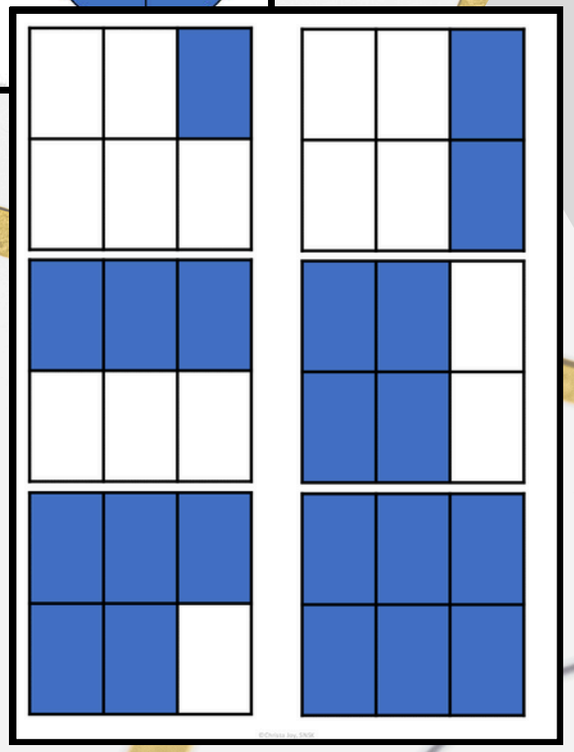
Students will work with **fraction bars** to create and determine if fractions are equivalent.

Group activity #3

Working with models

- Included:
  - Colored in models
    - Circles (5 variations) all the same size
    - Square (5 variations) all the same size
  - Blank models Preparation
    - Circles (5 variations) all the same size
    - Square (5 variations) all the same size
- Preparation
  - Ideally make one set for each student
  - Print on cardstock
  - Laminate
    - For durability
    - To color in using dry erase markers
- Activity Ideas
  1. Give students a colored model and a blank model that has a different set of pieces. Students will color in their blank model (with dry erase markers) so the two are equivalent.
  2. Pass out a colored model to each student and have them find another student who has an equivalent fraction.
  3. Give student a fraction card and a piece of play-do. Have them make the shape with the play-do and cut it into the same number of pieces (using a popsicle stick). Have students "mark" the colored sections on the card by marking the same sections in the play-do. They can use a thumbprint, stamp, or other object to make an impression in the play-do.
  4. Have students write the fraction represented by the colored in area.
  5. Have students hold equivalent fractions that are the same shape but different number of pieces up to the light to see they cover the same area. You can also put them on a light box or overhead projector.
  6. Match models with fraction cards provided in separate file.





Students will work with **fraction models** to create and determine if fractions are equivalent.

Focuses on halves, thirds, fourths, sixths, and eighths

Blank templates included

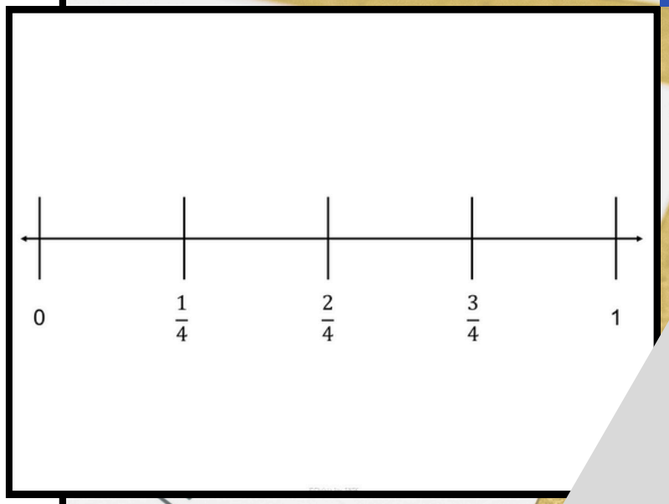
Group activity #4

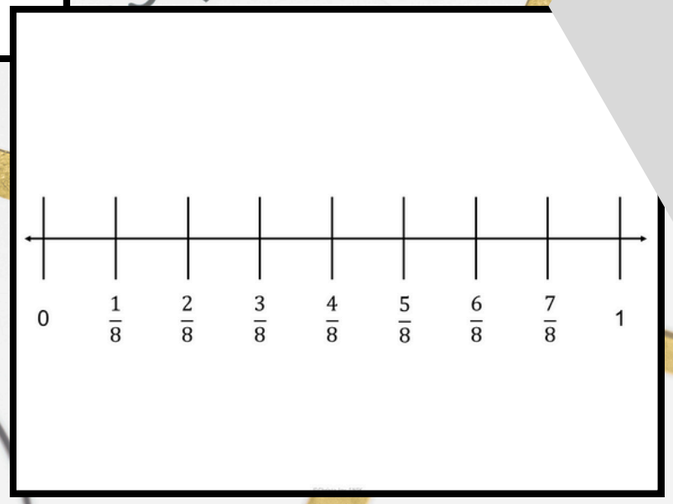
Working with number lines

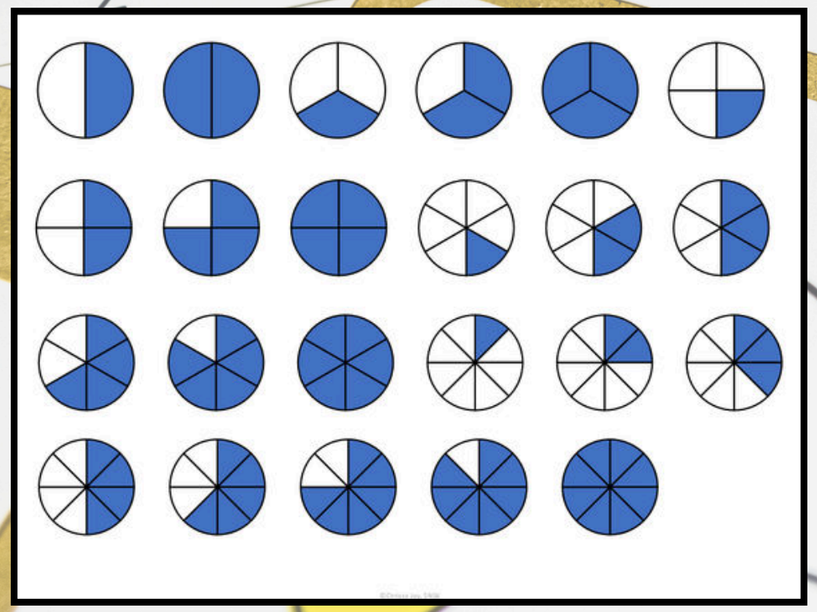
- Included:
  - 5 number lines
  - Models that are reduced in size to fit on number line
  - Blank templates reduced in size
- Preparation
  - Print number lines on cardstock and laminate or place in page protector
  - Print fraction models on cardstock, cut out and laminate
- Activities
  1. Have students practice placing models on number line
  2. Place equivalent fractions on number line
  3. Tape or place two number lines together so when students place models, they can see which are equivalent

Number line 1

Number line 2



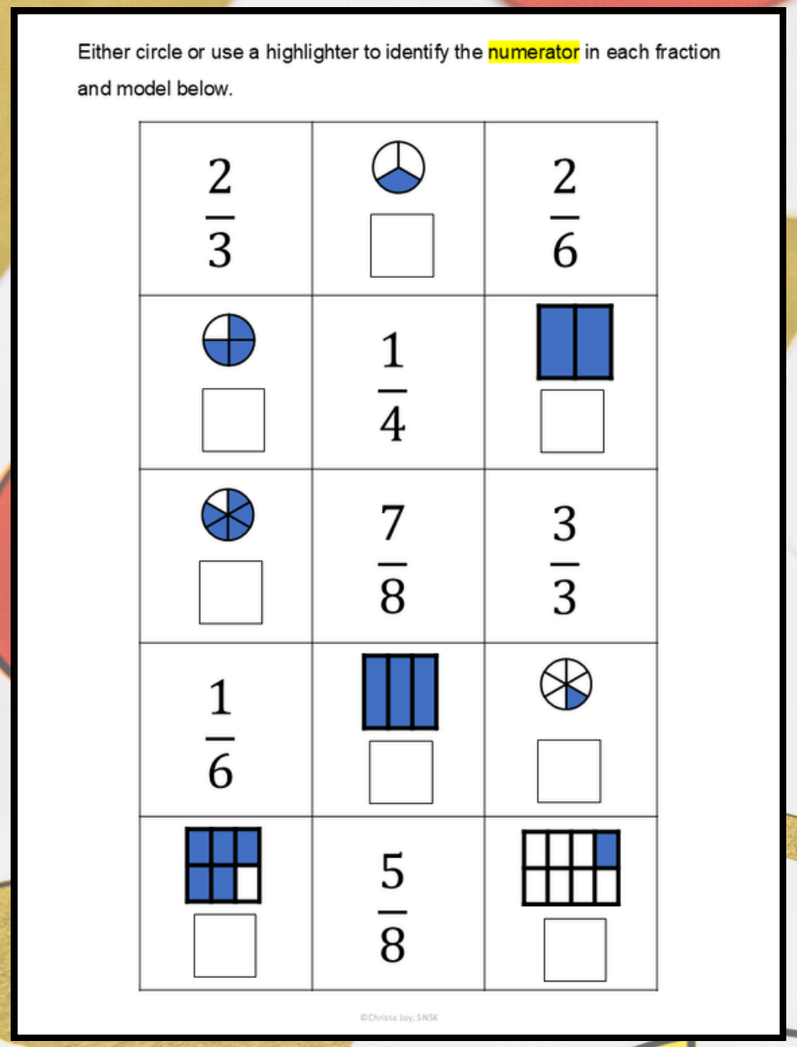




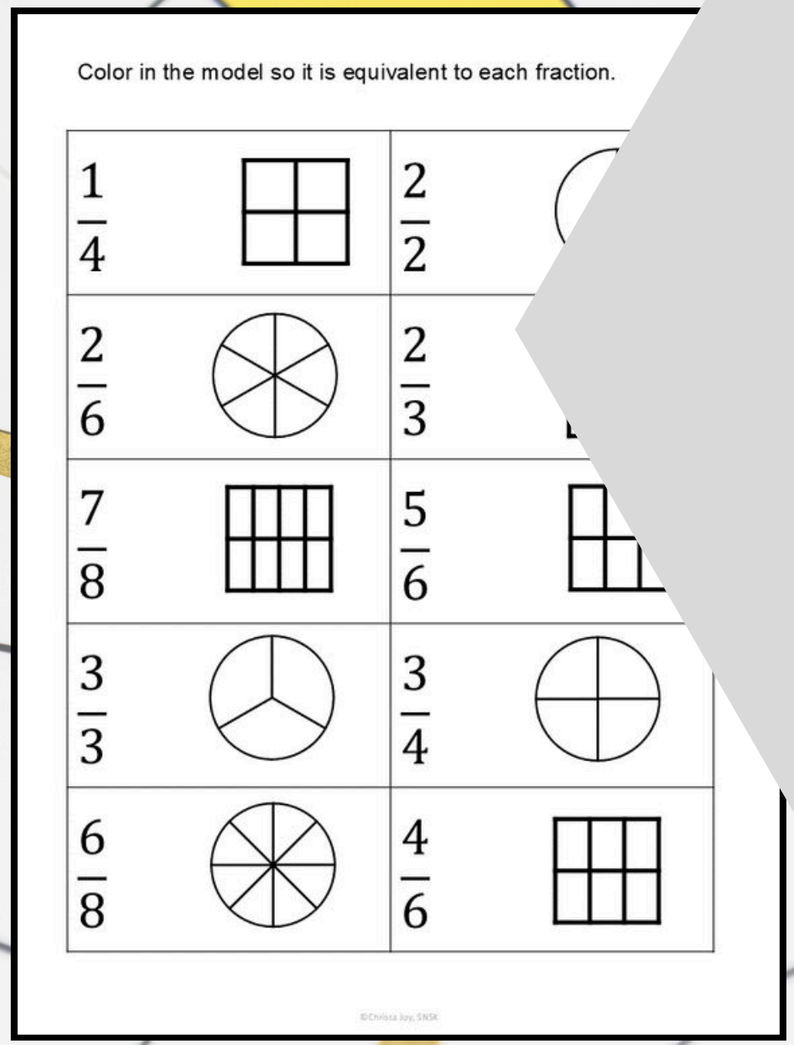
Students will use number lines to determine if fractions are equivalent.

Blank templates included

Worksheet set #1


Either circle or use a highlighter to identify the numerator in each fraction and model below.

$\frac{2}{3}$		$\frac{2}{6}$
	$\frac{1}{4}$	
	$\frac{7}{8}$	$\frac{3}{3}$
$\frac{1}{6}$		
	$\frac{5}{8}$	

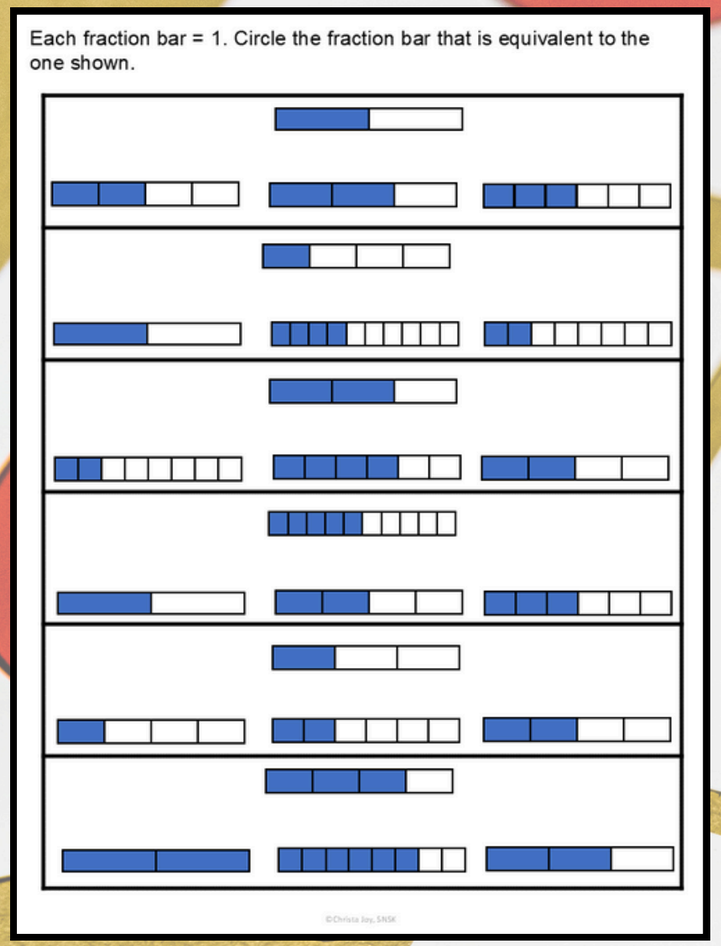

Color in the model so it is equivalent to each fraction.

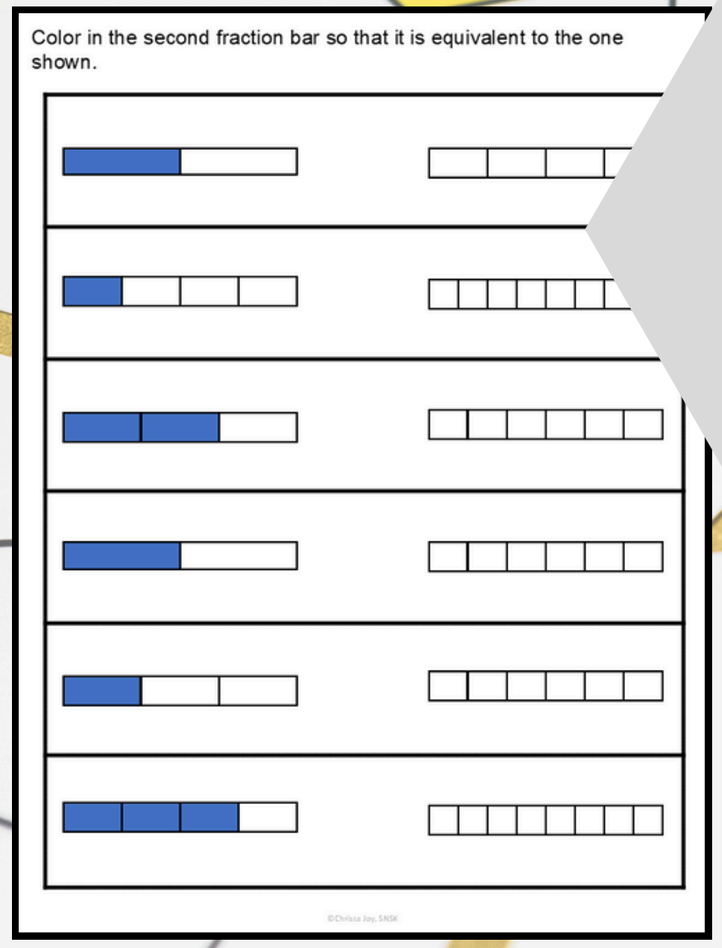
$\frac{1}{4}$		$\frac{2}{2}$	
$\frac{2}{6}$		$\frac{2}{3}$	
$\frac{7}{8}$		$\frac{5}{6}$	
$\frac{3}{3}$		$\frac{3}{4}$	
$\frac{6}{8}$		$\frac{4}{6}$	

These 4 worksheets review basic fraction skills:

- id numerator
- id denominator
- write fractions from models
- color in models

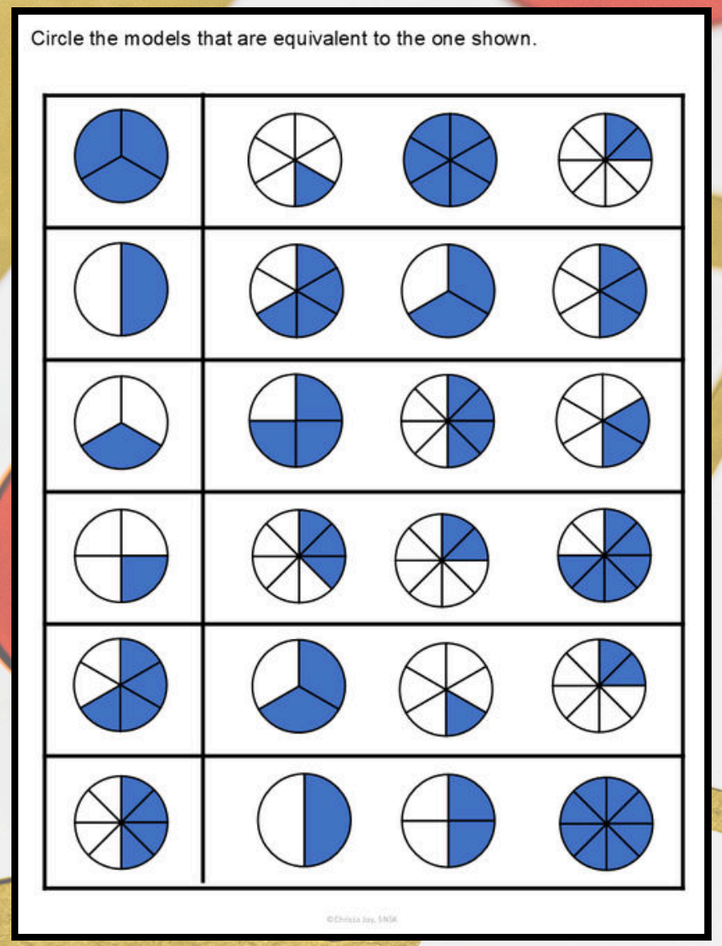
Worksheet set #2





These 6 worksheets use fraction bars:

- color in bars to represent a fraction (review)
- identify equivalent fraction bars

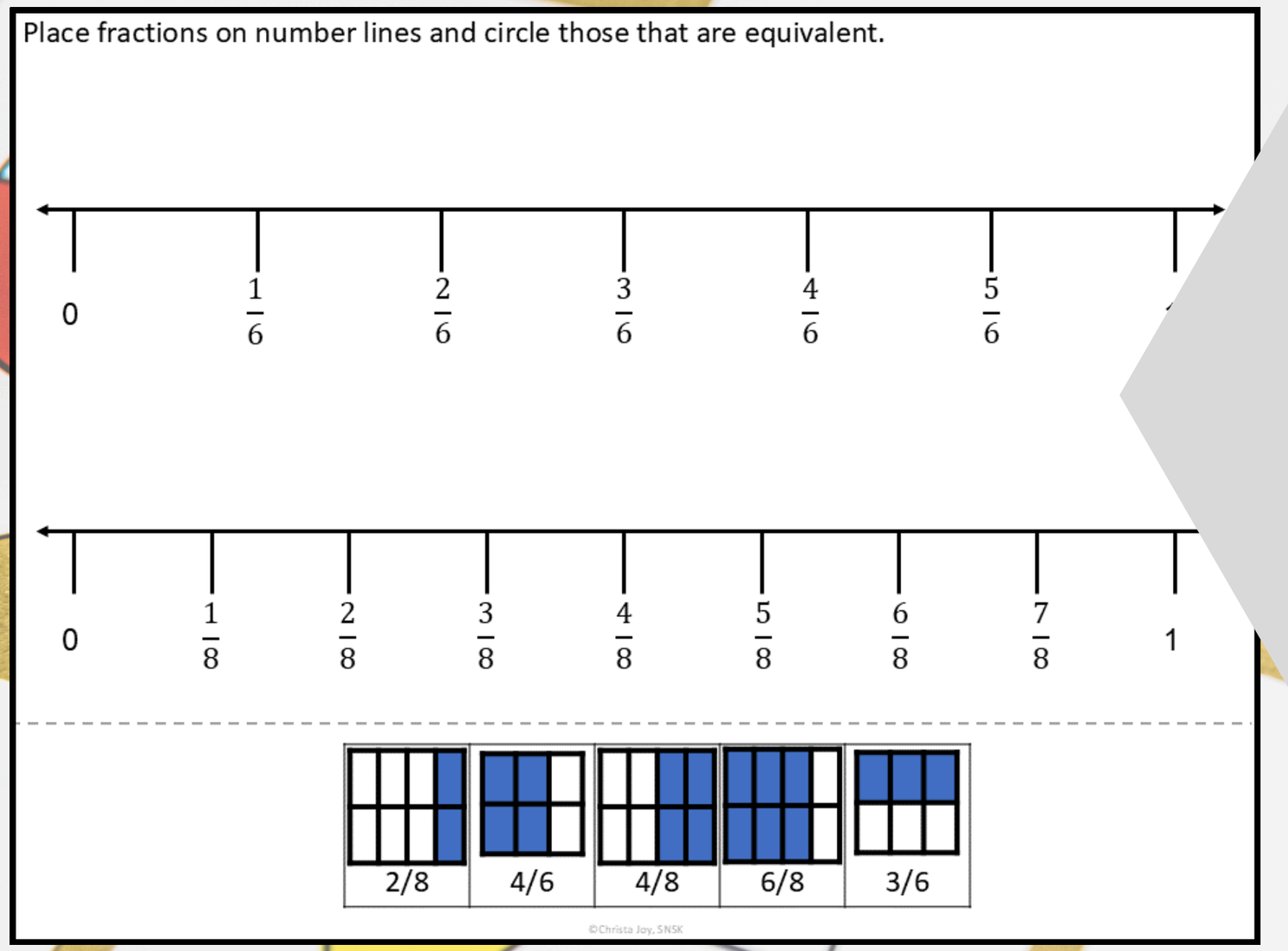


Worksheet set #3

These 4 worksheets use fraction models to identify equivalent fractions:

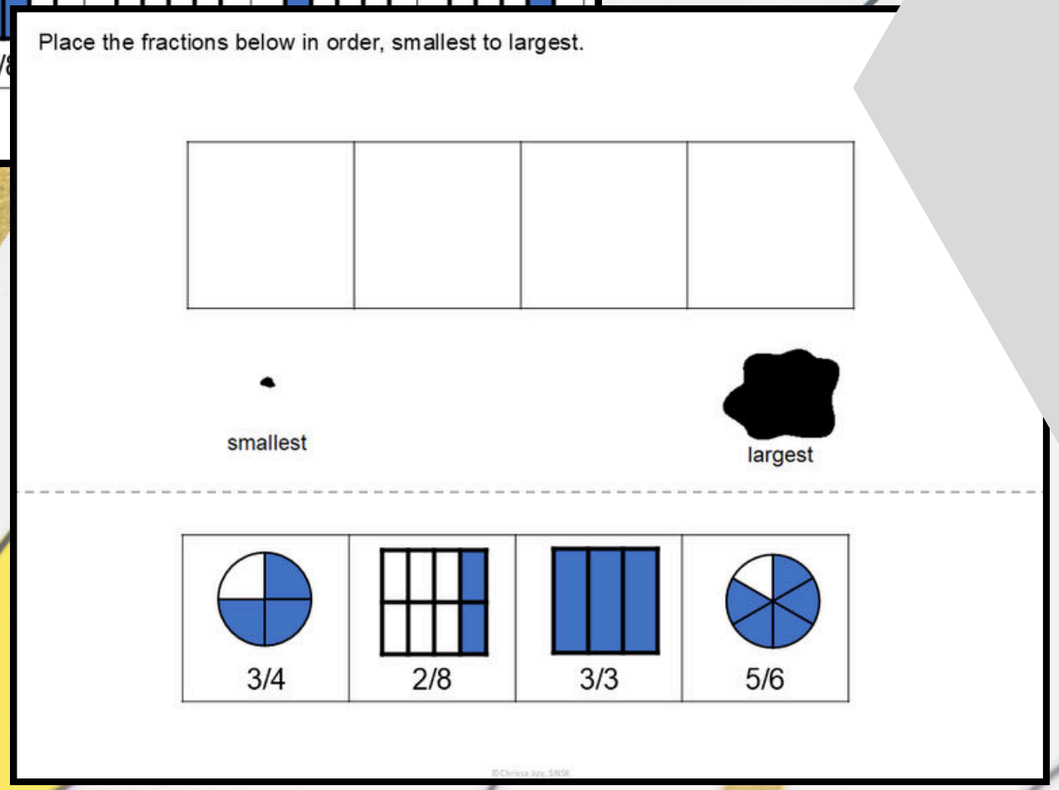
- compare the same shapes with a different number of pieces
- compare different shapes and different number of pieces

Worksheet set #4



These 8 worksheets use number lines to identify equivalent fractions:

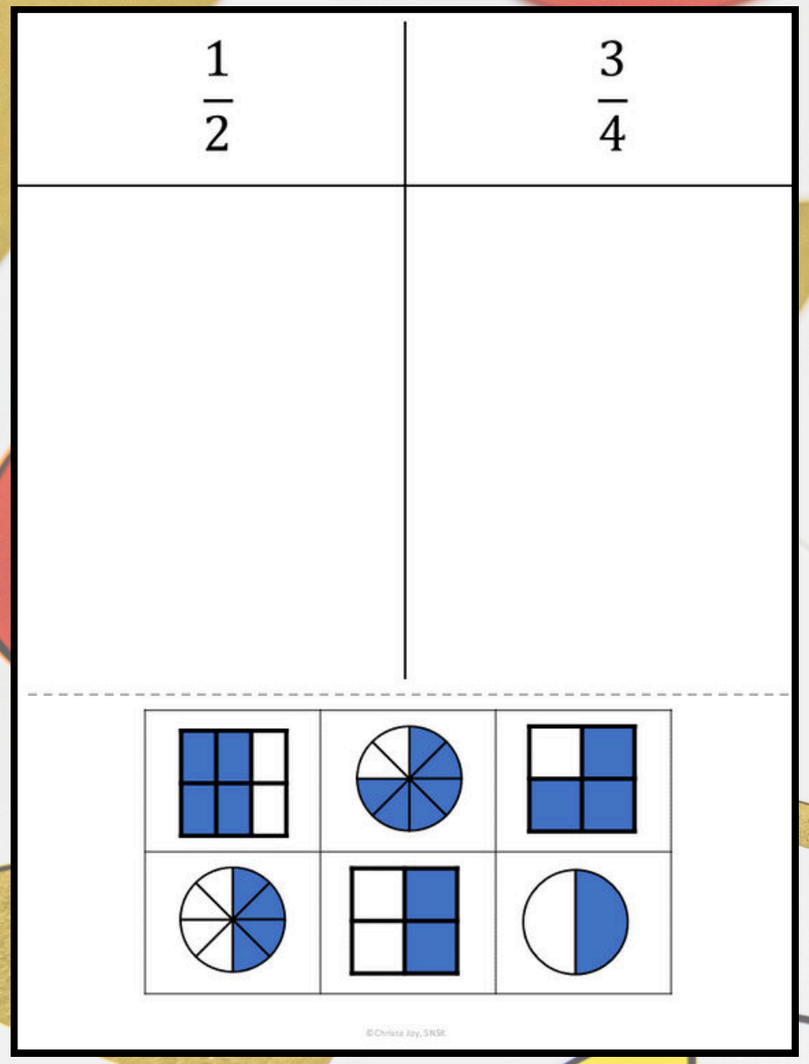
- students will cut out fractions and place them on the number line
- students will circle those that are equivalent on the two number lines

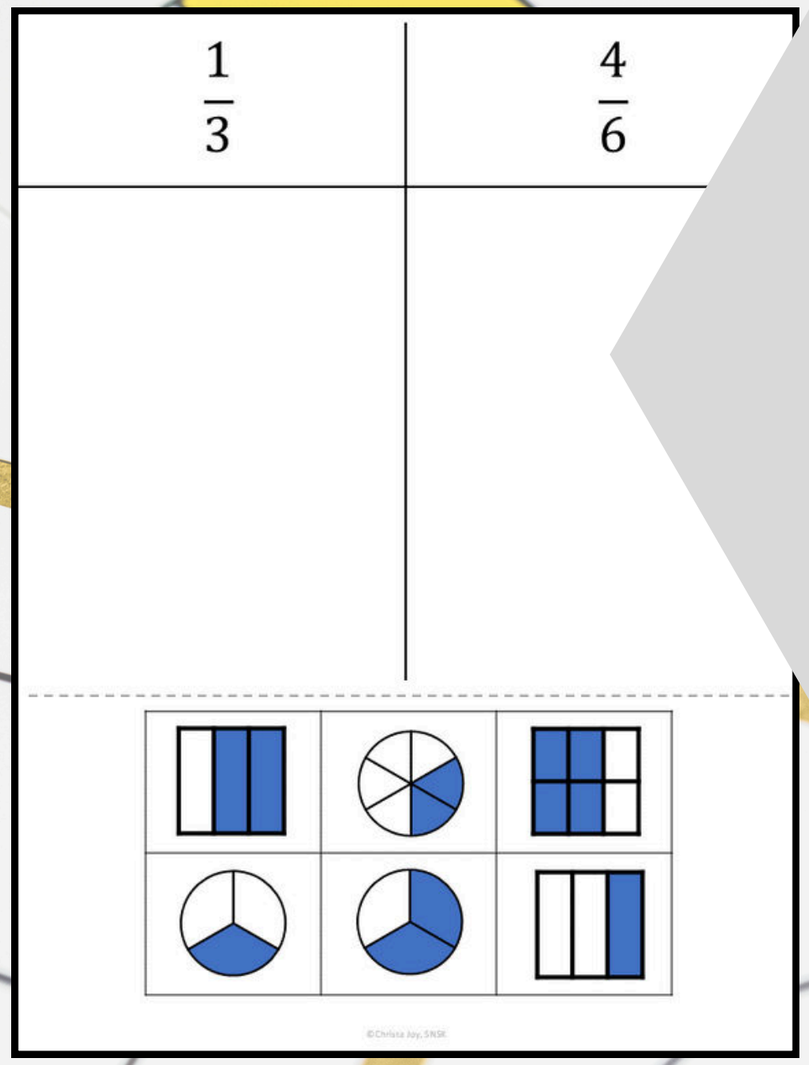


Sequencing

These 8 worksheets have students sequence fraction models from smallest to largest.

- uses the same shapes with a different number of pieces
- uses different shapes and different number of pieces





Sorting

These 3 worksheets have students sort fractions that are equivalent.

Quiz

Name: _____ Quiz

1. Which of the following is equivalent to 2+2=4?

2 – 2 = 0	4 + 4 = 8	3 + 1 = 4

2. Circle the fraction equivalent to 1.

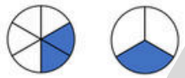
1/2	8/8	5/1

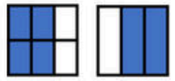
3. What is the fraction for this model? 

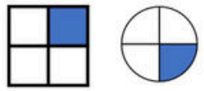
1/2	4/8	2/3

4. Circle all the models that are equivalent to ½ .

5. Circle all the models that are equivalent to ¾ 

6. Are these two models equivalent? 
   A. Yes
   B. No
   C. I don't know

7. Are these two models equivalent? 
   A. Yes
   B. No
   C. I don't know

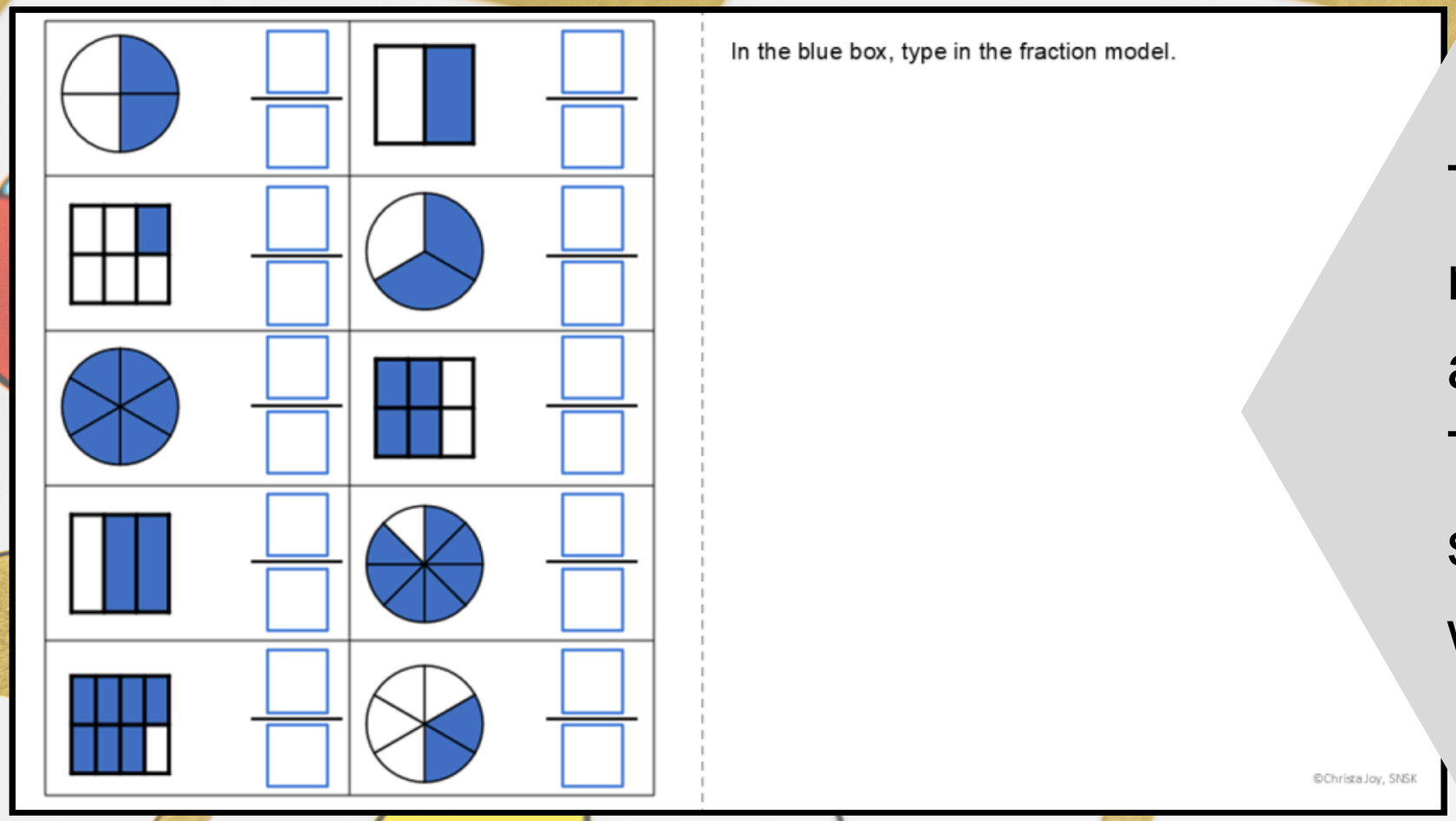
8. Are these two models equivalent? 
   A. Yes
   B. No
   C. I don't know

There is a short quiz to assess if more teaching is needed.

This is also used as the preassessment.

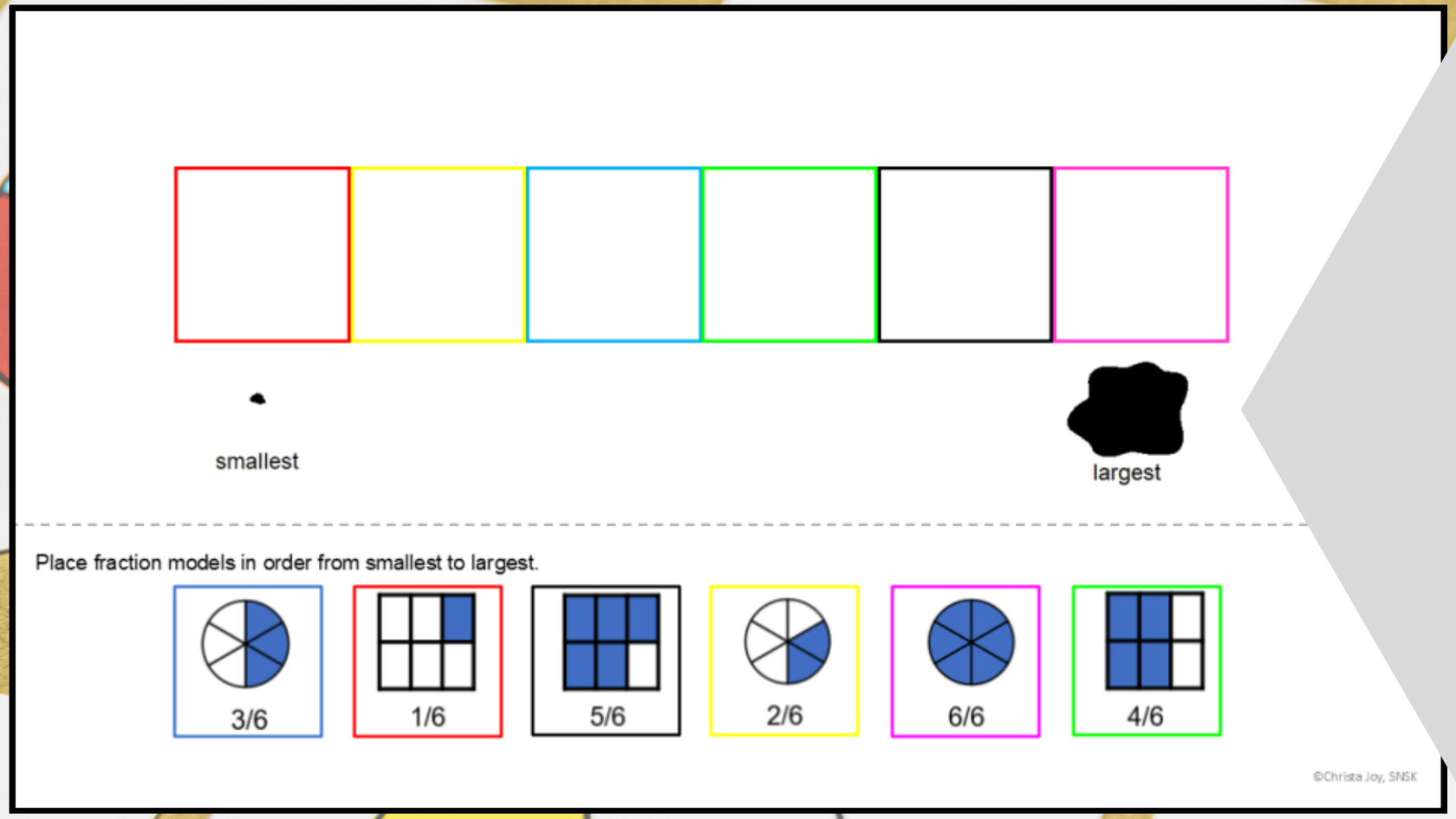
This unit also has digital activities. There is a movie version of the book that students can listen to read aloud.

Great for review



The digital activities require students to click and drag their answers. This set includes a few slides where students will type in their answers.

Perfect for every learning level



The second set of slides is differentiated using color, and no typing is needed.