

# COMPARING FRACTIONS

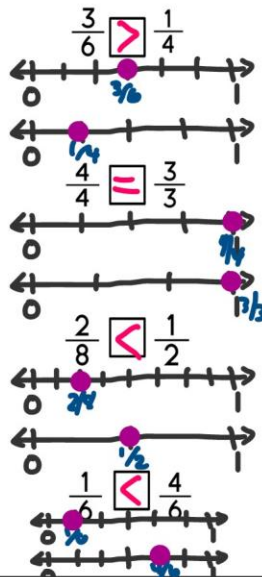


- ✓ GAMES
- ✓ ACTIVITIES
- ✓ WORKSHEETS

# 5 MINI-LESSONS

## Comparing Fractions with Number Lines

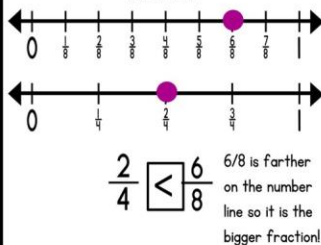
### Compare!



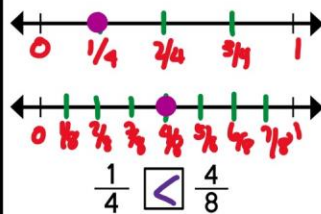
### Helpful Tips

- > means greater than
- < means less than
- The sign always opens towards the bigger fraction

### EXAMPLE:



Compare  $\frac{1}{4}$  and  $\frac{4}{8}$ .



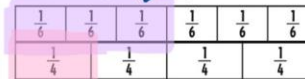
### How to Solve

- Step 1: Draw 2 number lines and label them with 0 and 1 on both sides.
- Step 2: Graph the first fraction on the first number line.
- Step 3: Graph the second fraction on the second number line.
- Step 4: See if the fractions fall in the same spot to see if they are equal!

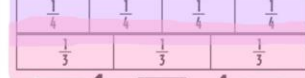
## Comparing Fractions with Fraction Strips

Compare the fractions below.  
Shade in the fraction strips to solve.

$$\frac{3}{6} > \frac{1}{4}$$



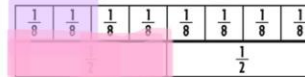
$$\frac{4}{4} = \frac{3}{3}$$



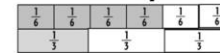
$$\frac{1}{6} < \frac{4}{6}$$



$$\frac{2}{8} < \frac{1}{2}$$



### Example



$$\frac{1}{3} < \frac{4}{6}$$



Compare  $\frac{2}{3}$  and  $\frac{3}{6}$ .

$$\frac{2}{3} > \frac{3}{6}$$

### How to Solve

- Step 1: Shade in the first fraction.
- Step 2: Shade in the second fraction.
- Step 3: See which fraction has more shaded in. That is the greater fraction.

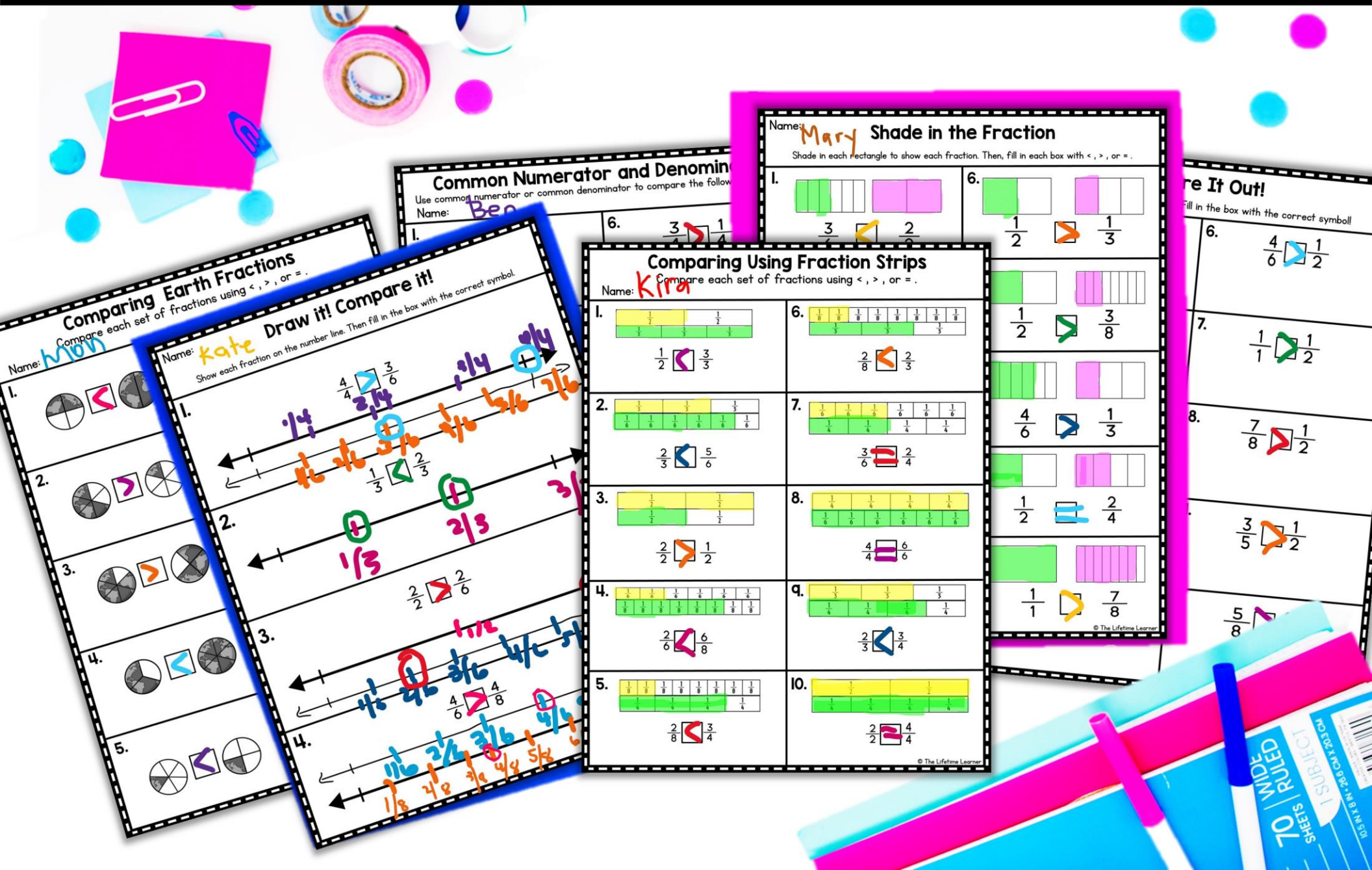
### Helpful Tips

- > means greater than
- < means less than
- The sign always opens towards the bigger fraction

1. ON NUMBER LINES
2. WITH FRACTION STRIPS
3. WITH PICTURES
4. WITH TRICKS
5. WITH COMMON NUMERATOR & COMMON DENOMINATOR



# 10 WORKSHEETS



**Comparing Earth Fractions**  
Compare each set of fractions using  $<$ ,  $>$ , or  $=$ .

Name: *Mon*

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

2.  $\frac{1}{3} > \frac{1}{6}$

3.  $\frac{1}{2} > \frac{1}{3}$

4.  $\frac{1}{4} > \frac{1}{6}$

5.  $\frac{1}{3} > \frac{1}{6}$

**Draw it! Compare it!**  
Show each fraction on the number line. Then fill in the box with the correct symbol.

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

2.  $\frac{1}{3} > \frac{1}{6}$

3.  $\frac{1}{2} > \frac{1}{3}$

4.  $\frac{1}{4} > \frac{1}{6}$

5.  $\frac{1}{3} > \frac{1}{6}$

**Common Numerator and Denominator**  
Use common numerator or common denominator to compare the following.

Name: *Ben*

1.  $\frac{3}{4}$   $>$   $\frac{1}{4}$

6.  $\frac{3}{4}$   $<$   $\frac{2}{3}$

**Shade in the Fraction**  
Shade in each rectangle to show each fraction. Then, fill in each box with  $<$ ,  $>$ , or  $=$ .

1.  $\frac{1}{2} > \frac{1}{3}$

6.  $\frac{1}{2} > \frac{1}{3}$

**Comparing Using Fraction Strips**  
Compare each set of fractions using  $<$ ,  $>$ , or  $=$ .

Name: *Kira*

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

2.  $\frac{2}{3} < \frac{5}{6}$

3.  $\frac{1}{2} > \frac{1}{2}$

4.  $\frac{2}{6} < \frac{6}{8}$

5.  $\frac{2}{8} < \frac{3}{4}$

6.  $\frac{1}{2} < \frac{2}{3}$

7.  $\frac{3}{6} = \frac{2}{4}$

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

9.  $\frac{1}{4} < \frac{3}{4}$

10.  $\frac{2}{2} = \frac{4}{4}$

**Fill It Out!**  
Fill in the box with the correct symbol.

6.  $\frac{4}{6} > \frac{1}{2}$

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

8.  $\frac{7}{8} > \frac{1}{2}$





9.  $\frac{3}{5} > \frac{1}{2}$

10.  $\frac{5}{8} > \frac{1}{2}$

# CUT & PASTE ACTIVITIES





## Recess Time!

The kids have to get in line for recess. Please help them get in the correct line! Cut out and glue each student in the line they belong to.

LESS THAN $\frac{1}{2}$	EQUAL TO $\frac{1}{2}$	GREATER THAN $\frac{1}{2}$
		
		

## Fraction Brain Teasers!

Cut out and glue each kid with the brain teaser they belong with.

<ul style="list-style-type: none"><li>-I am greater than <math>\frac{1}{2}</math>.</li><li>-My denominator is one more than my numerator.</li><li>-The product of my numerator and denominator is 6.</li><li>-I am equivalent to <math>\frac{4}{6}</math>.</li></ul> 	<ul style="list-style-type: none"><li>-My denominator has the same number of parts as a hexagon.</li><li>-My numerator times my denominator equals 18.</li><li>-I am equivalent to <math>\frac{1}{3}</math>.</li></ul>	<ul style="list-style-type: none"><li>-I am equivalent to <math>\frac{3}{4}</math>.</li><li>-My numerator and denominator combined equals 14.</li><li>-I am greater than <math>\frac{1}{2}</math>.</li></ul> 	<ul style="list-style-type: none"><li>-I am greater than <math>\frac{3}{4}</math>.</li><li>-My numerator and denominator are the same.</li><li>-My numerator minus my denominator equals 0.</li></ul> 	<ul style="list-style-type: none"><li>-I am less than <math>\frac{1}{2}</math>.</li><li>-My denominator has the same number of parts as an octagon.</li><li>-My numerator is less than 3.</li></ul> 
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# MATH SORT

**2 Versions:**  
-with pictures  
-with numbers

Students look at each pair of fractions and decide if the symbol is correct or incorrect.



$\frac{1}{10}$

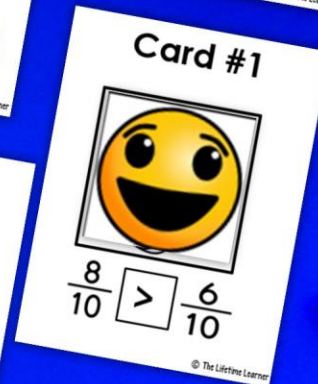
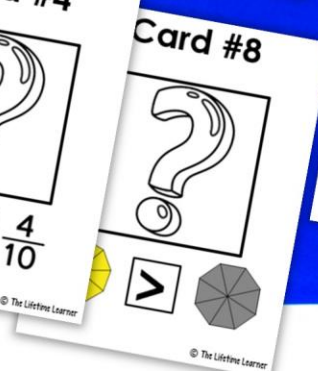
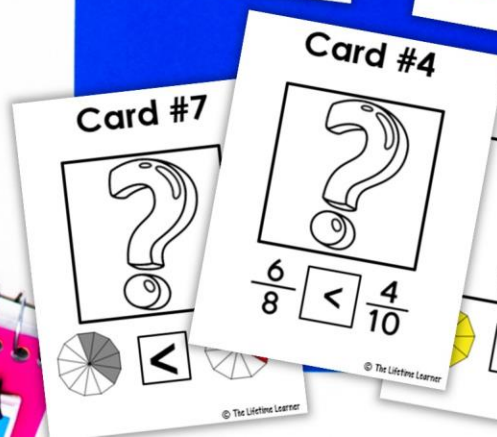
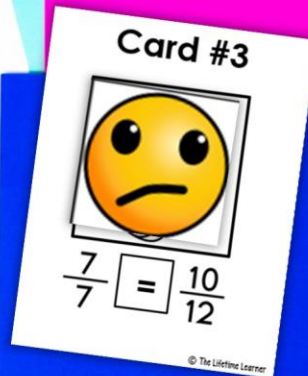
$\frac{1}{6}$

$\frac{1}{12}$

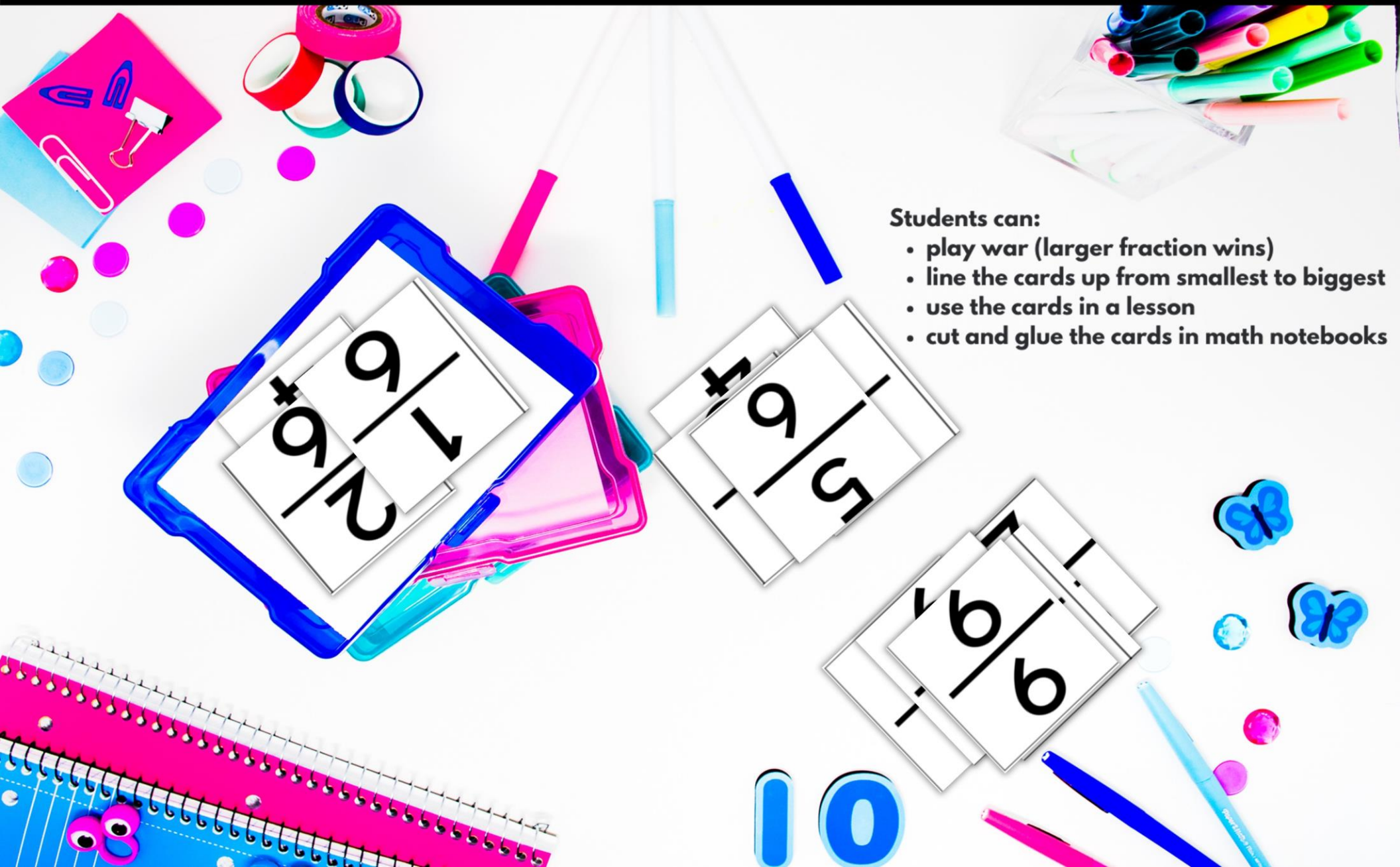
$\frac{1}{12}$

$\frac{1}{8}$

$\frac{1}{5}$



# FLASH CARDS



**Students can:**

- play war (larger fraction wins)
- line the cards up from smallest to biggest
- use the cards in a lesson
- cut and glue the cards in math notebooks

# ERROR ANALYSIS

Students decide if each kid solved the problem correctly or incorrectly. They explain their thinking at the bottom.

4 PAGES

Directions: Read the problem below and look at the work the student did. Decide if the work is correct or not.

Is  $\frac{4}{6}$  or  $\frac{4}{8}$  larger?



$$\frac{4}{6} < \frac{4}{8}$$

The student says:

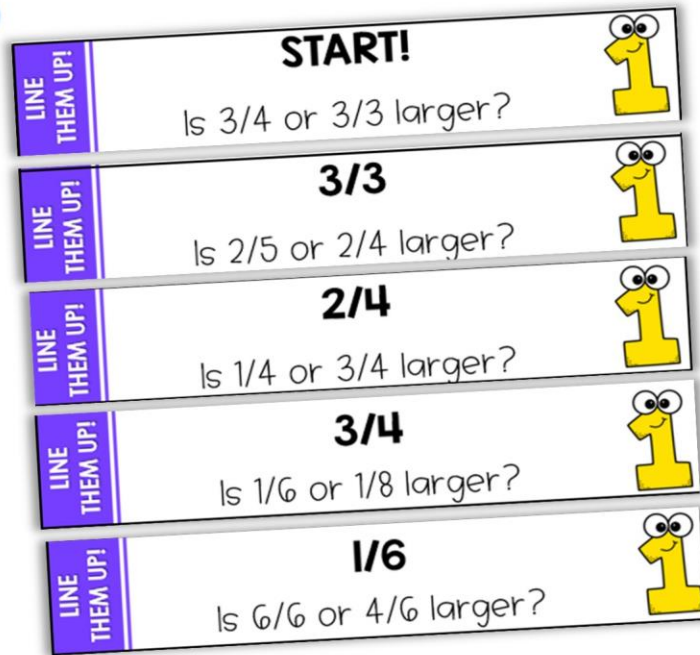
I put the less than symbol in the middle because 8 is larger than 6 so that means  $\frac{4}{8}$  is bigger than  $\frac{4}{6}$ .

Explain if they are right or wrong. Put a check or X on their work.

X They are wrong because 6 is split into less pieces so each piece is bigger. 4 pieces of 6 is bigger than 4 pieces of 8.  $\frac{4}{6} > \frac{4}{8}$

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# GAME #1

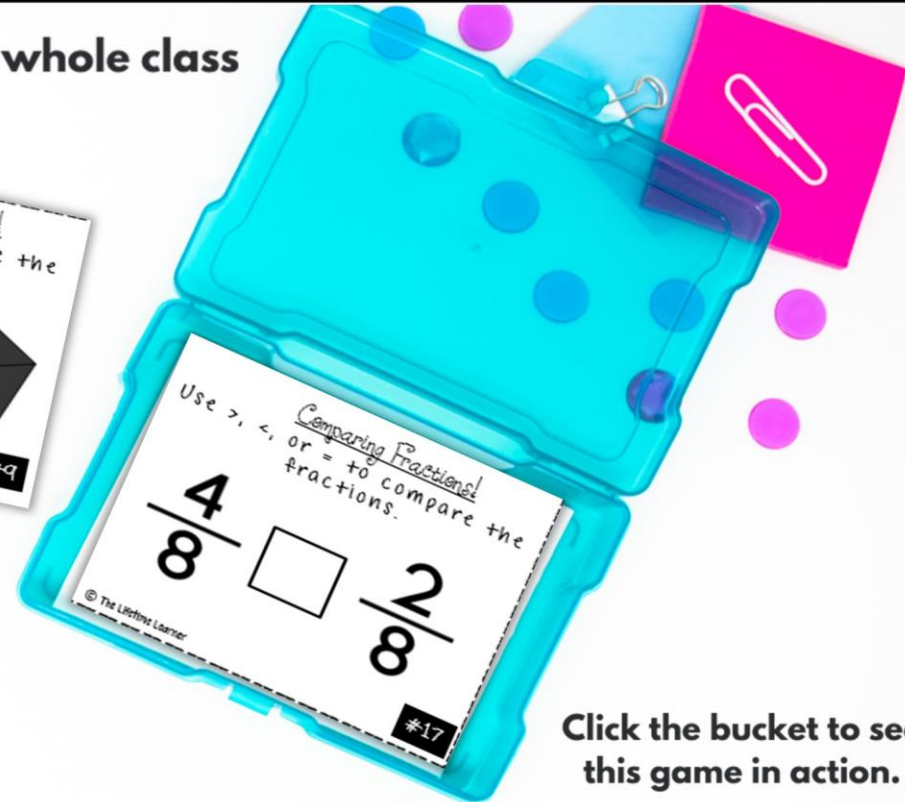
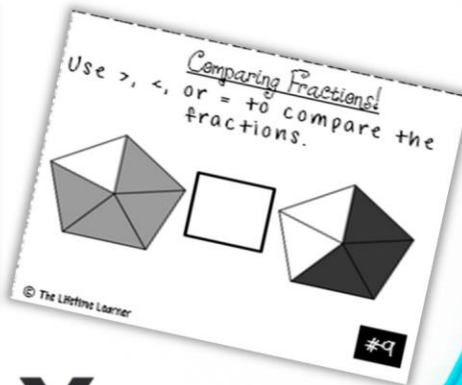
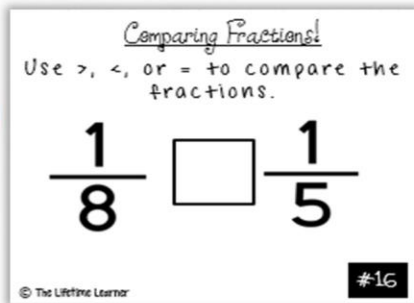


## HOW TO PLAY:

- Students pair up in teams.
- Students race to line up their cards in order before the other team.

# GAME #2

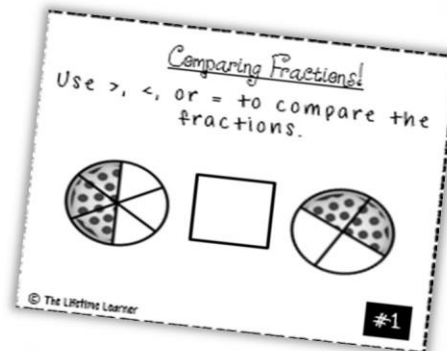
the perfect game to play with the whole class



Click the bucket to see this game in action.

## HOW TO PLAY:

1. Students answer task cards.
2. If they get it right, they drop it in the bucket.
3. Students play for a set amount of time.
4. At the end of gameplay, the teacher draws task cards out of the bucket.
5. Any student whose task card gets pulled out gets a small prize.



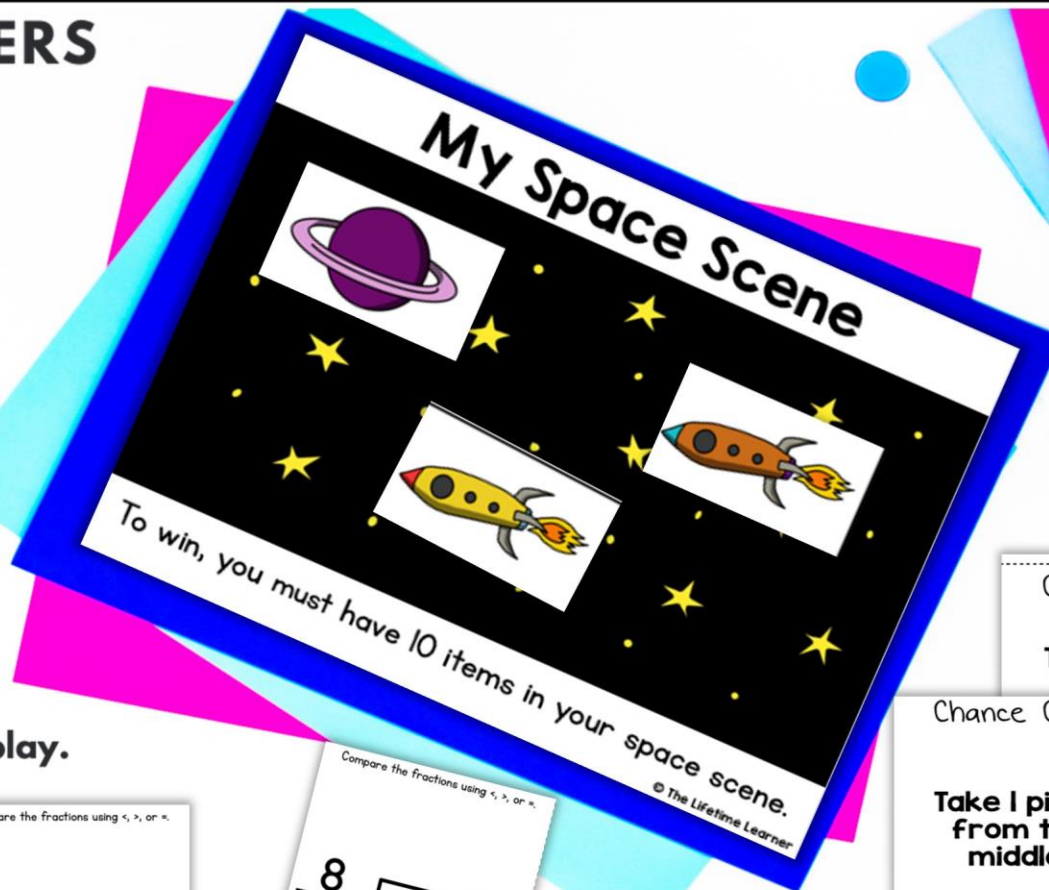
# GAME #3

FOR 2-4 PLAYERS



## HOW TO PLAY:

1. All players receive a game mat.
2. Students answer a question card.
3. If they are correct, they earn an item.
4. The first person to earn 10 items wins.
5. Chance cards included to spice up gameplay.



Compare the fractions using  $<$ ,  $>$ , or  $=$ .

$$\frac{3}{6} \square \frac{3}{8}$$

#2

Compare the fractions using  $<$ ,  $>$ , or  $=$ .

$$\frac{8}{1} \square \frac{5}{1}$$

Compare the fractions using  $<$ ,  $>$ , or  $=$ .

$$\frac{3}{4} \square \frac{4}{4}$$

#1

Compare the fractions using  $<$ ,  $>$ , or  $=$ .

$$\frac{6}{6} \square \frac{4}{6}$$

#15



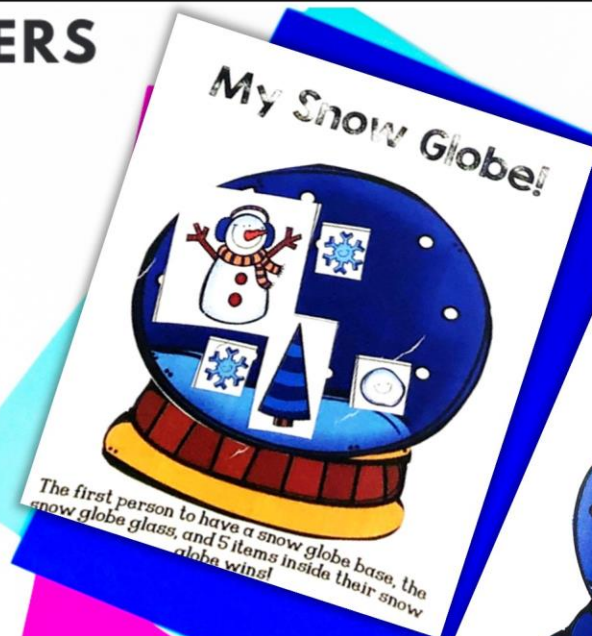
# GAME #4

FOR 2-4 PLAYERS



## HOW TO PLAY:

1. All players receive a game mat.
2. Students answer a question card.
3. If they are correct, they earn an item.
4. The first person to earn 10 items wins.
5. Chance cards included to spice up gameplay.



Card #13

$$\frac{2}{9} \square \frac{8}{9}$$

Card #9

$$\frac{7}{8} \square \frac{6}{8}$$

Card #10

$$\frac{5}{8} \square \frac{1}{2}$$

Card #12

$$\frac{6}{7} \square \frac{1}{3}$$

Chance Card!

To

Chance Card!

Take a piece from the middle.

Take 1 piece from the middle.

Give it to other player.

The Lifetime Learner



# BUY THE BUNDLE AND SAVE BIG!

## 3RD GRADE MATH BUNDLE

Name: Lindsay The Beach

Write the number of the matching word problem on each bucket to show which sandcastle goes with each word problem.

Sandcastle	Letter	Number
A	#6	
B	#5	
C	#2	
D	#4	
E	#1	
F	#3	

- There are 2 sharks. Each one has 5 teeth. How many teeth do the sharks have combined?  $2 \times 5 = 10$
- There are 54 fish in the water. They are split between 6 small pools equally. How many fish are in each pool of water?  $54 \div 6 = 9$
- There are 36 umbrellas for sale on the beach. 6 umbrellas are sold each hour. How many hours did it take to sell all of the umbrellas?  $36 \div 6 = 6$
- There are 3 fences facing the beach. There are four seagulls sitting on each one. How many seagulls are there total?  $3 \times 4 = 12$
- There are 12 surfers out in the water. They are chatting in groups of 4. How many groups are chatting?  $12 \div 4 = 3$
- There are 50 seals out in the ocean. They are sitting in groups of 10. How many groups of seals are there?  $50 \div 10 = 5$

My Castle



To win, you must have 10 items in your castle.

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7000+  
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ACTIVITIES

WORKSHEETS

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**RESTAURANT**  
**chef** <<<<<<< equivalent fractions  
3.NF.3



**3rd GRADE**  
By: The Lifetime Learner

**EDITABLE**  
**ROOM TRANSFORMATION**

**PIRATE**  
**day** <<<<<<< compare fractions  
3.NF.3



**3rd GRADE**  
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**EDITABLE**  
**ROOM TRANSFORMATION**

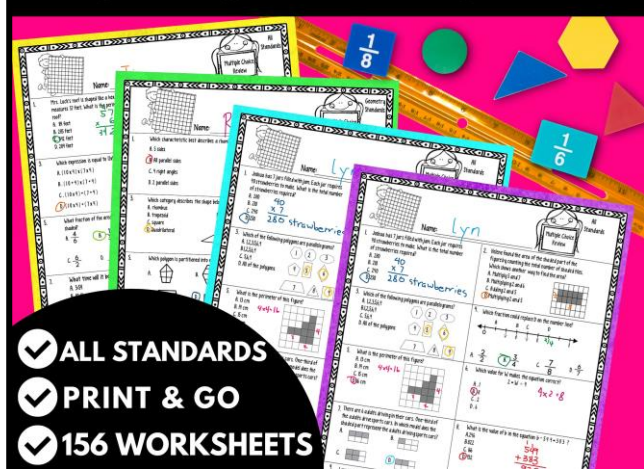
**DETECTIVE**  
**day** <<<<<<< fraction review  
3.NF.1-3.NF.3



**3rd GRADE**  
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**GRAB IT!** 29 MATH GAMES  
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**GRAB IT!**  
 $\div 3 = 2$

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**3RD GRADE BUNDLE**  
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