

FRACTIONS ON NUMBER LINES

Let's Learn: Fractions on Number Lines
Number lines are always broken into equal pieces

1. $\frac{1}{2}$
2. $\frac{1}{3}$
3. $\frac{1}{4}$
4. $\frac{2}{4}$
5. $\frac{1}{5}$

My Dog Park

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

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Tell what fraction is represented by the dot on the number line.

Tell what fraction is represented by the dot on the number line.

#10

Fractions on a Number Line
Whoop! These kids are confused about fractions. Help them by placing a dot on the number line to show what they did wrong and what the correct answer is.

Name: *Lindsey*

1. PUT $\frac{3}{4}$ ON THE NUMBER LINE

2. PUT $\frac{5}{6}$ ON THE NUMBER LINE

3. PUT $\frac{3}{8}$ ON THE NUMBER LINE

4. PUT $\frac{2}{3}$ ON THE NUMBER LINE

Put It Up: Number Line
Number line into the number of parts given for

fourths

eighths

thirds

sixths

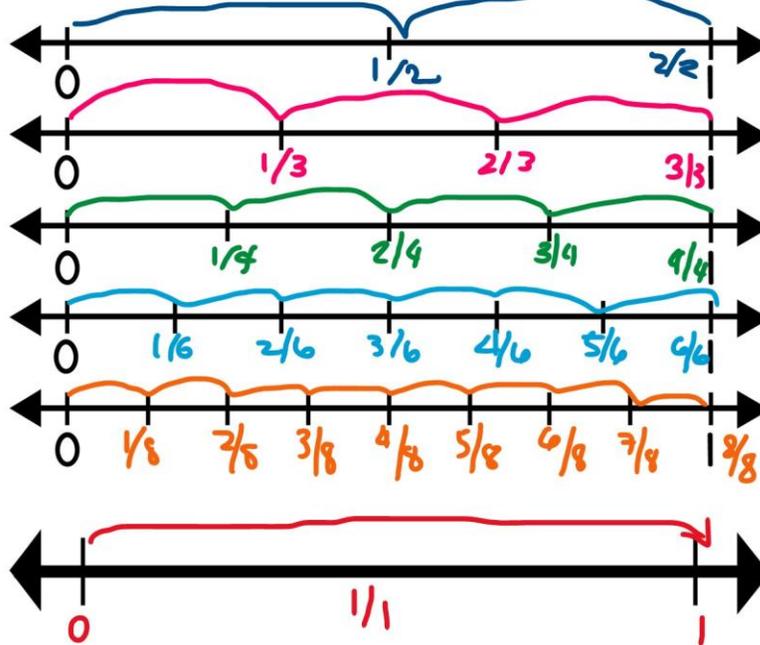
halves

- ✓ GAMES
- ✓ ACTIVITIES
- ✓ WORKSHEETS

MINI LESSON

Let's Learn: Fractions on Number Lines

Number lines are always broken into equal pieces



How to Solve:



- Step 1: Draw a number line with two arrows on both ends.
- Step 2: Label the left side 0 and the right side 1.
- Step 3: Look at the denominator of the fraction you need to put on the number line. That is how many HOPS you will go or how many parts you will split the number line into.
- Step 4: Look at the numerator. That is which hop you need to mark on the number line. Done!



$$\frac{1}{5}$$

$$\frac{1}{10}$$

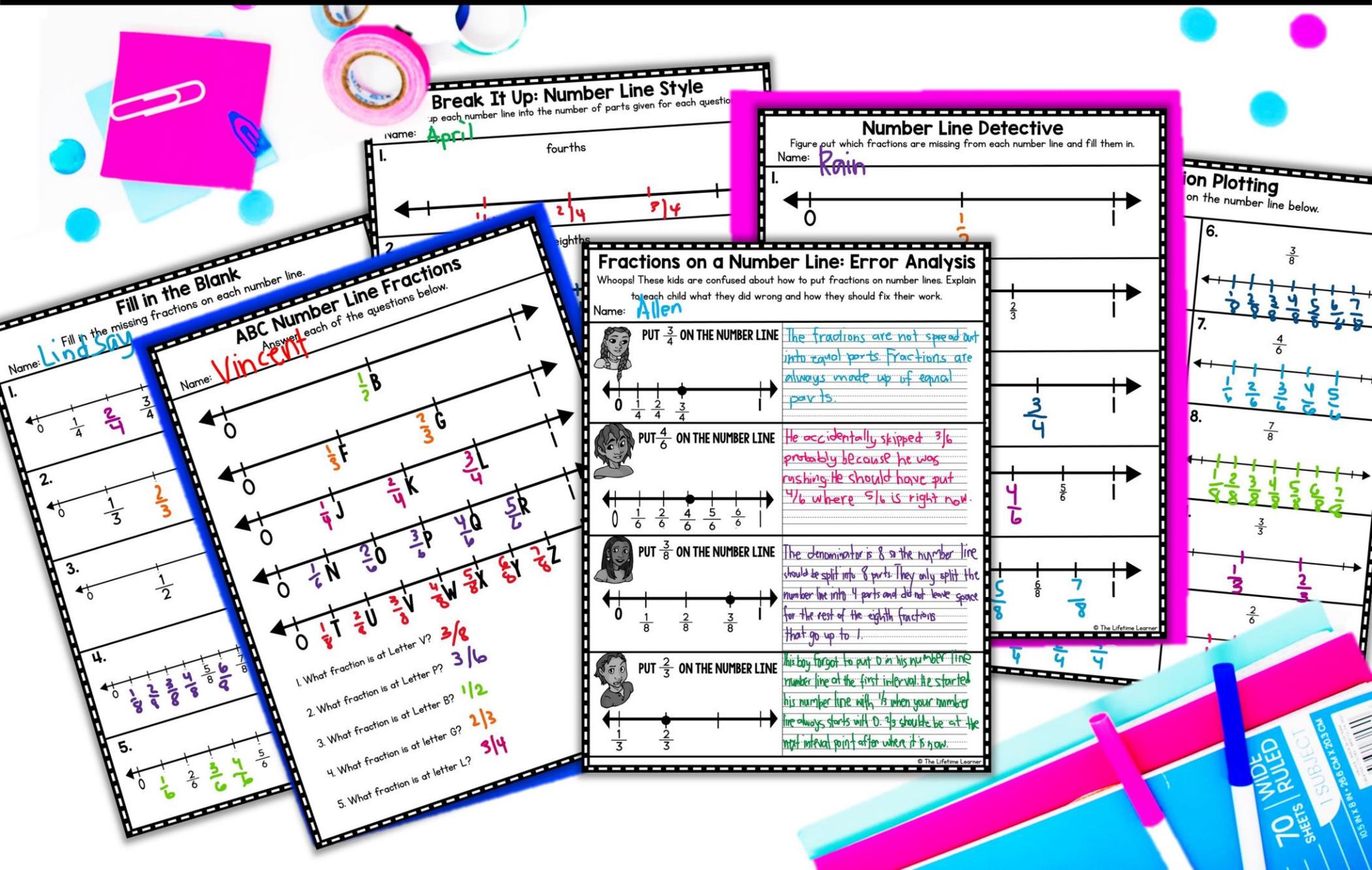
$$\frac{1}{12}$$

$$\frac{1}{12}$$

$$\frac{1}{8}$$

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

10 WORKSHEETS



Break It Up: Number Line Style

Divide each number line into the number of parts given for each question.

Name: **April**

1. _____ fourths

2. _____ eighths

3. _____

Number Line Detective

Figure out which fractions are missing from each number line and fill them in.

Name: **Rain**

1. _____

Fill in the Blank

Fill in the missing fractions on each number line.

Name: **Lindsay**

1. _____

2. _____

3. _____

4. _____

5. _____

ABC Number Line Fractions

Answer each of the questions below.

Name: **Vince**

1. What fraction is at Letter P? **$\frac{3}{8}$**

2. What fraction is at Letter B? **$\frac{3}{6}$**

3. What fraction is at Letter G? **$\frac{1}{2}$**

4. What fraction is at letter Q? **$\frac{2}{3}$**

5. What fraction is at letter L? **$\frac{3}{4}$**

Fractions on a Number Line: Error Analysis

Whoops! These kids are confused about how to put fractions on number lines. Explain to each child what they did wrong and how they should fix their work.

Name: **Allen**

1. PUT $\frac{3}{4}$ ON THE NUMBER LINE

The fractions are not spread out into equal parts. Fractions are always made up of equal parts.

2. PUT $\frac{4}{6}$ ON THE NUMBER LINE

He accidentally skipped $\frac{3}{6}$ probably because he was rushing. He should have put $\frac{4}{6}$ where $\frac{5}{6}$ is right now.

3. PUT $\frac{3}{8}$ ON THE NUMBER LINE

The denominator is 8 so the number line should be split into 8 parts. They only split the number line into 4 parts and did not leave space for the rest of the eighth fractions that go up to 1.

4. PUT $\frac{2}{3}$ ON THE NUMBER LINE

This boy forgot to put 0 in his number line number line of the first interval. He started his number line with $\frac{1}{3}$ when your number line always starts with 0. It should be at the next interval point after where it is now.

Number line with tick marks and handwritten fractions: $\frac{2}{3}$, $\frac{3}{5}$, $\frac{5}{8}$, $\frac{7}{8}$.

Point Plotting

Plot the following fractions on the number line below.

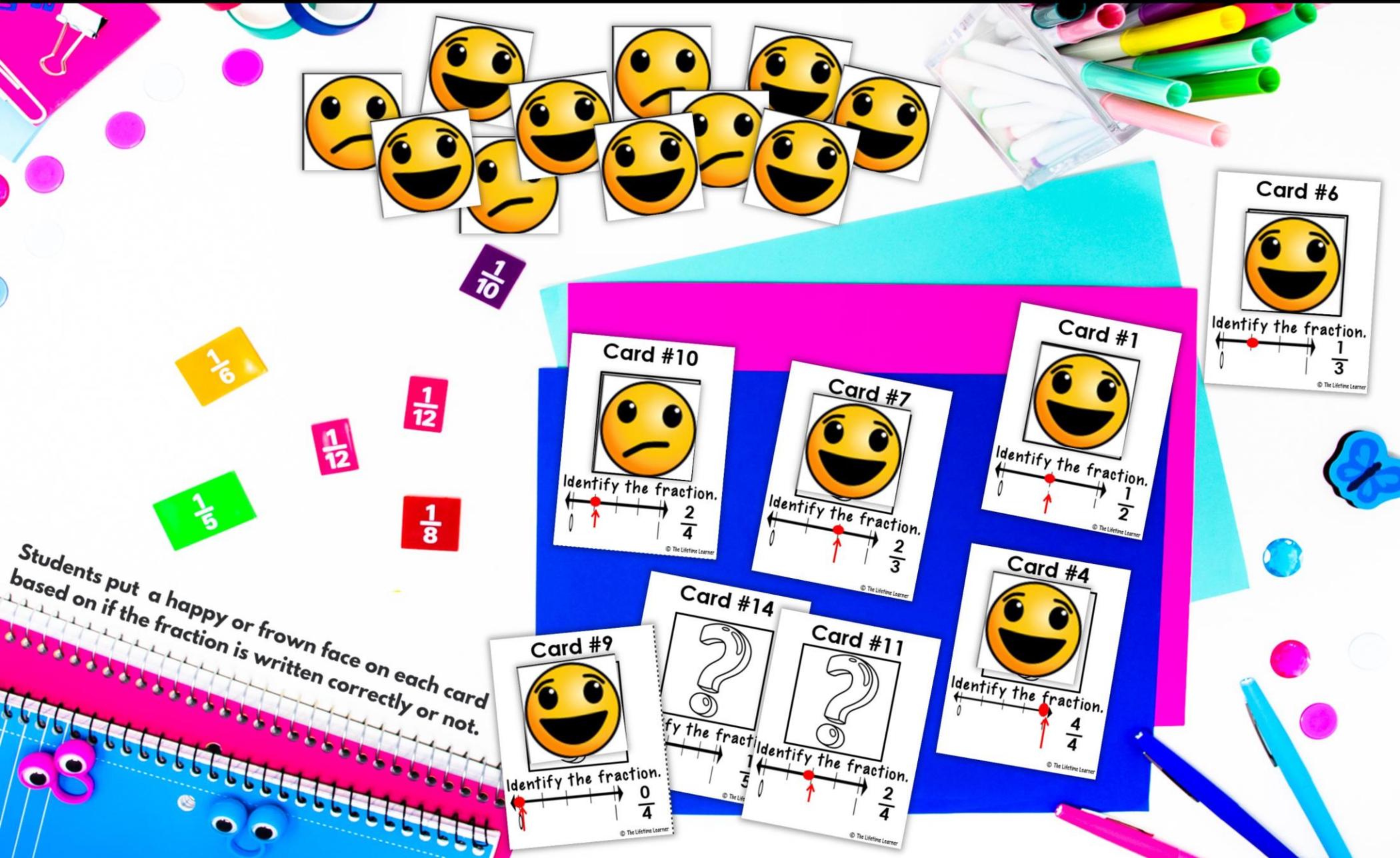
6. $\frac{3}{8}$

7. $\frac{4}{6}$

8. $\frac{7}{8}$



MATH SORT



Card #6



Identify the fraction.
0 ———— 1/3 ————

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Card #1



Identify the fraction.
0 ———— 1/2 ————

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Card #10



Identify the fraction.
0 ———— 2/4 ————

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Card #7



Identify the fraction.
0 ———— 2/3 ————

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Card #4



Identify the fraction.
0 ———— 4/4 ————

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Card #14



Identify the fraction.
0 ———— 1/5 ————

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Card #11



Identify the fraction.
0 ———— 2/4 ————

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Card #9



Identify the fraction.
0 ———— 0/4 ————

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1/6

1/12

1/12

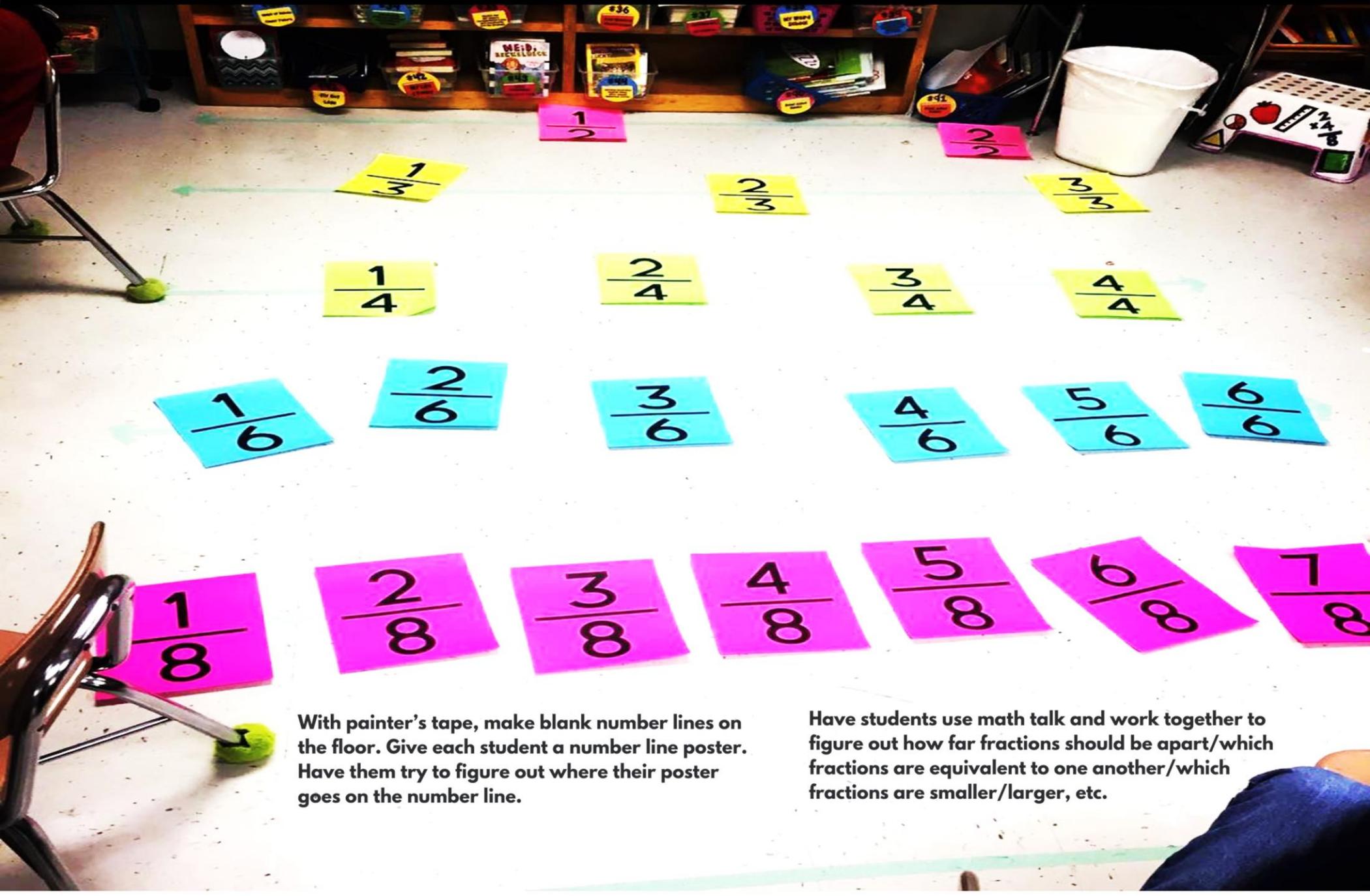
1/5

1/8

1/10

Students put a happy or frown face on each card based on if the fraction is written correctly or not.

NUMBER LINE POSTERS



With painter's tape, make blank number lines on the floor. Give each student a number line poster. Have them try to figure out where their poster goes on the number line.

Have students use math talk and work together to figure out how far fractions should be apart/which fractions are equivalent to one another/which fractions are smaller/larger, etc.

TASK CARDS

What fraction does the chicken represent?

0 $\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$ 1

4/4

3

What fraction does the duck represent?

0 $\frac{1}{2}$ 1

1/2

1

What fraction does the goat represent?

0 $\frac{1}{3}$ $\frac{2}{3}$ 1

1/3

2

What fraction does the horse represent?

0 $\frac{1}{6}$ $\frac{2}{6}$ $\frac{3}{6}$ $\frac{4}{6}$ $\frac{5}{6}$ 1

3/6

1

ANIMAL FRACTION RECORDING SHEET

#1 $\frac{1}{2}$	#2 $\frac{1}{3}$	#3	#4
#5	#6	#7	#8
#9	#10	#11	#12
#13	#14	#15	#16
#17	#18	#19	#20
			#21

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Play SCOOT with the task cards or place them around the room for a scavenger hunt.

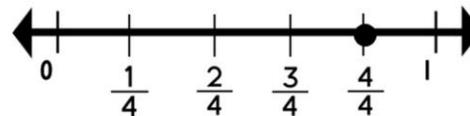
ERROR ANALYSIS

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.

Put $\frac{4}{4}$ on the number line.



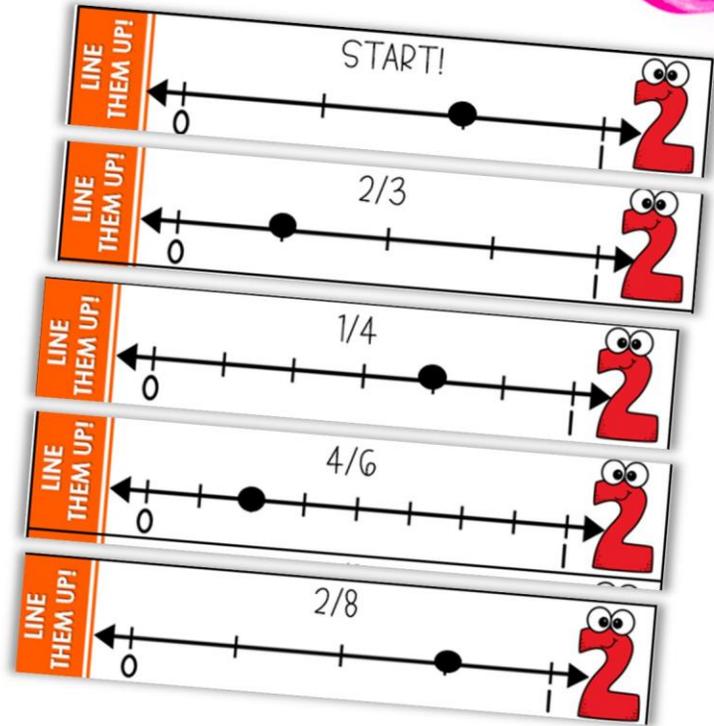
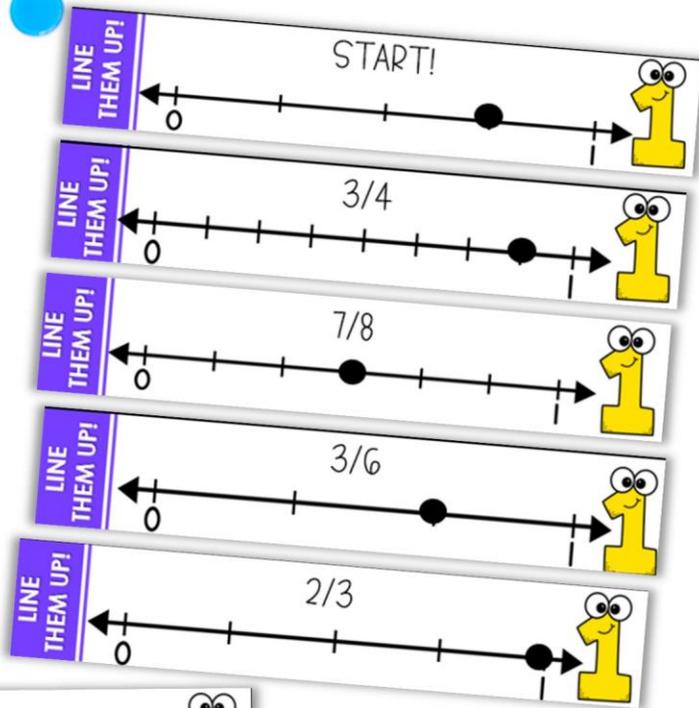
The student says:

I put all of the fractions on the number line just like I was supposed to. Then, I marked $\frac{4}{4}$ with a dot.

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

X The girl was wrong. $\frac{4}{4}$ and 1 are equal. She broke it into 5 pieces instead of 4.

GAME #1



HOW TO PLAY:

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



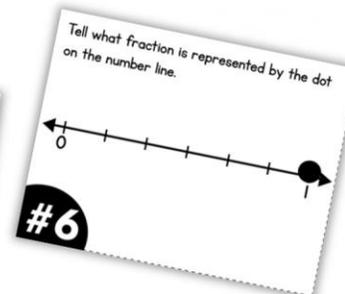
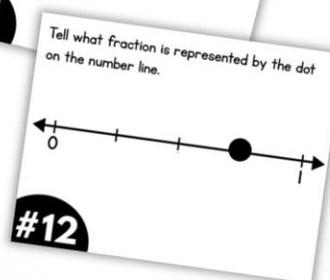
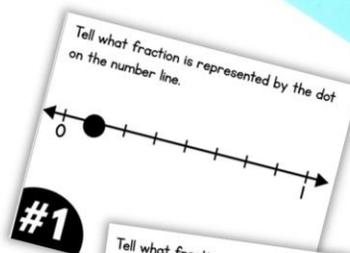
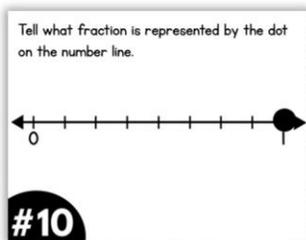
GAME #2

FOR 2-4 PLAYERS



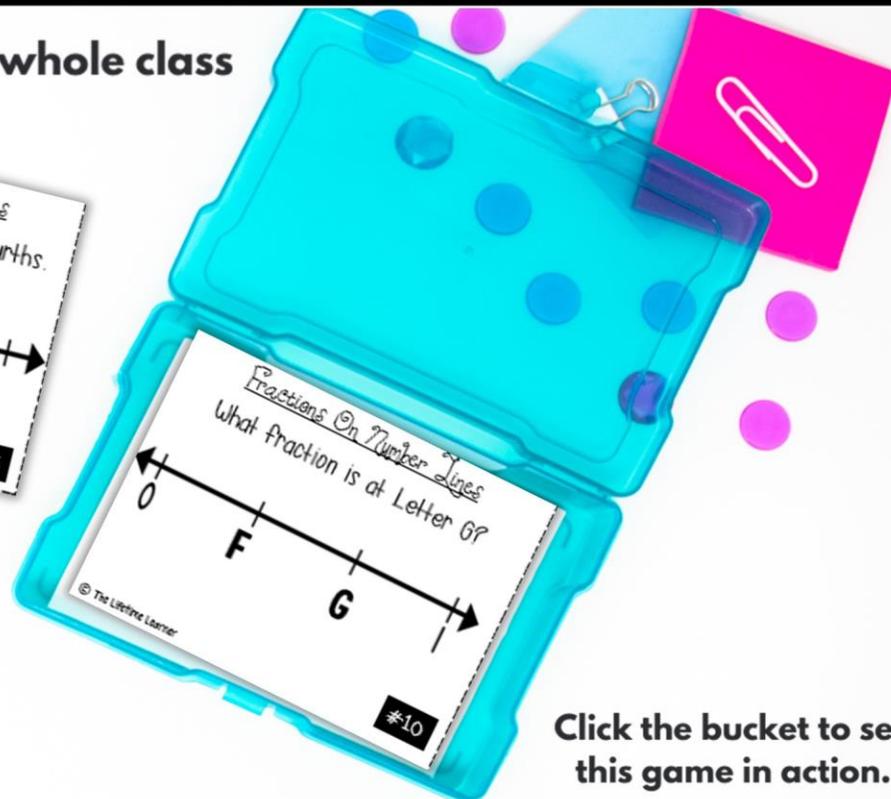
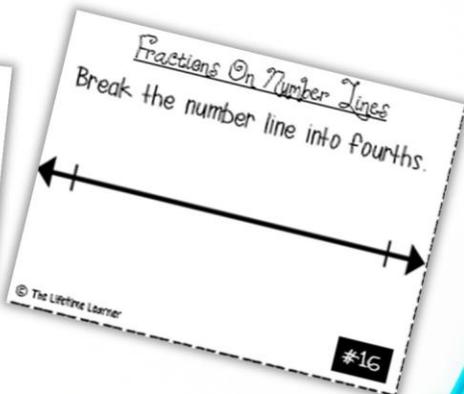
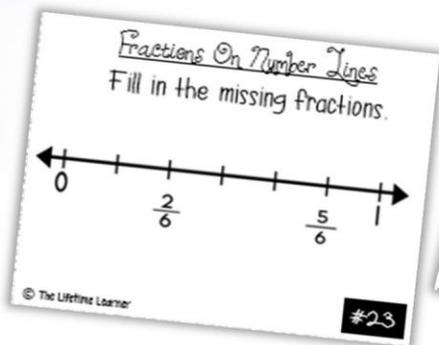
HOW TO PLAY:

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.



GAME #3

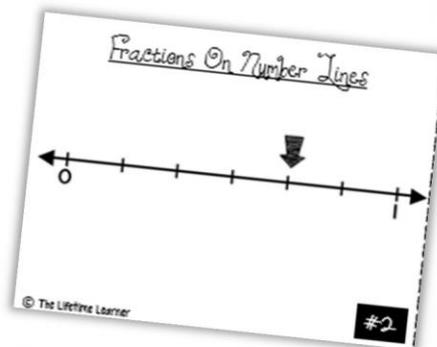
the perfect game to play with the whole class



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.



BUY THE BUNDLE AND SAVE BIG!

3RD GRADE MATH BUNDLE

Name: Lindsay **The Beach**
Write the number of the missing word problem on each bucket to show which sandcastle goes with each word problem.

5 A #6 3 B #5 9 C #2
12 D #4 10 E #1 6 F #3

- There are 2 sharks. Each one has 5 teeth. How many teeth do the teeth 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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7	24	15	6	7	24	15	48	7	
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81	3	18	48	81	3	18	6	81	

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 $_ \div 3 = 2$

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3RD GRADE BUNDLE TASK CARDS

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