

FRACTIONS

Partition Halves & Fourths

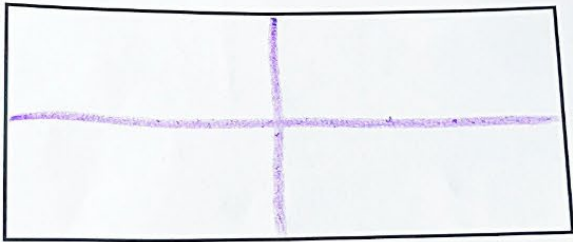
1ST GRADE

Problem Solver

Name: _____ Date: _____

Solve the word problems.

1. Talia is slicing up an ice cream cake she made for herself, her mom, and her 2 sisters. Partition the ice cream cake so Talia, her mom, and her 2 sisters can each have an equal slice.



Colby is partitioning a biscuit into halves. Did she partition it into 2 equal shares? If not, partition the new biscuit into 2 equal shares.

Colby's Biscuit _____ New Biscuit _____



COMPLETE UNIT INCLUDES VIDEO SONG, ANCHOR CHARTS, WORKSHEETS, CENTERS, & ASSESSMENT





Make Learning Fun!
Original song and
video to introduce and
reinforce the skill.



Fraction Factory

Partition and Identify Halves and Quarters



By: Madeline

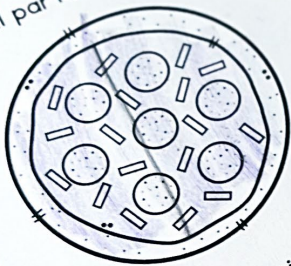
Date: _____

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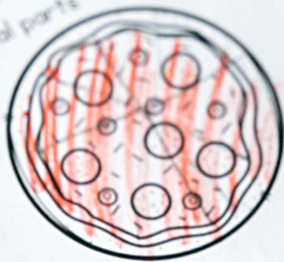
Equal Parts Pizza Parlor

Directions: Help cut pizzas at the pizza parlor! Partition the pizzas into equal parts.

1. Partition this pizza into 2 equal parts



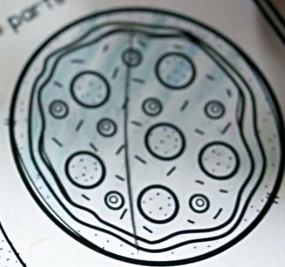
2. Partition this pizza into 4 equal parts



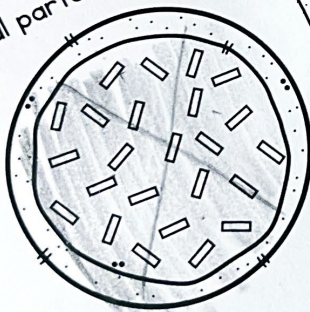
3. Partition this pizza into 2 equal parts



6. Partition this pizza into 2 equal parts



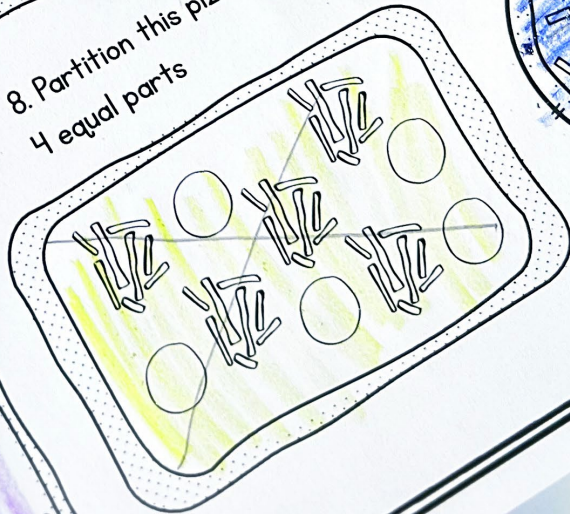
4. Partition this pizza into 4 equal parts



5. Partition this pizza into 4 equal parts



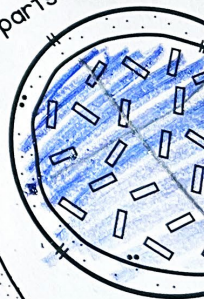
8. Partition this pizza into 4 equal parts



7. Partition this pizza into 2 equal parts



9. Partition this pizza into 4 equal parts



Name: _____

Date: _____

Fractions Quiz

1. Color in the shapes partitioned into equal shares.



2. Partition into halves.



3. Partition into quarters.



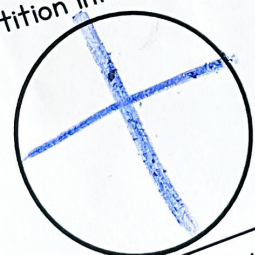
4. Partition into 2 equal shares.



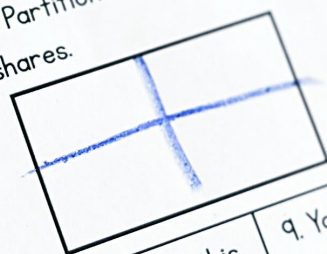
7. Partition into half of a whole.



5. Partition into fourths.



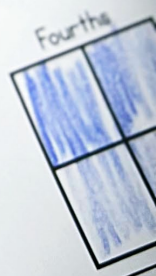
6. Partition into 4 equal shares.



8. Arthur wants to split a pizza with his 3 friends. Help Arthur partition the pizza so he and his 3 friends each get an equal share.



9. You have two cakes. One of the cakes is cut into halves and the other is cut into fourths. Circle the cake that has the larger slices.



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FRACTIONS

Partition Halves & Fourths

1. Pedagogy
2. Lesson Plans
3. Vocabulary Cards
4. Song
5. Anchor Chart: Equal Shares
6. Equal Parts Pizza Parlor Worksheet
7. Anchor Chart: Fractions
8. Halves Cut and Paste Worksheet
9. Halves Sort Worksheet
10. Halves Bakery Worksheet
11. Fourths/Quarters Rectangle Guided Practice
12. Partition Fourths and Quarters Worksheet
13. Model Fraction Word Problems
14. Who Has More? Guided Practice Activity
15. Mini-book
16. Shaving Cream Activity Directions
17. Mixed Fractions Worksheet Variations
18. Pizza Parlor Partitioners Game
19. Problem Solver
20. Quiz

Fractions

This unit sets the stage for students' first exposure to fractions. Before students can begin writing, adding, subtracting, multiplying, etc. with fractions, they have to first gain an understanding of equal parts and how to partition.

Understanding how to equally partition and identify equal shares is essential in student development both within mathematics and outside in the real world as well.

This unit will focus on building understanding around equal shares. Students will understand what equal shares are and how to partition a shape properly into equal shares. Students will then work on partitioning both rectangles and circles into halves and later into fourths or quarters. Students will utilize proper verbiage and be able to identify equal and unequal shares. The unit will also push students to implement their knowledge of partitioning and equal shares to real-world context problems. The unit will also challenge them to compare fractions to understand that when you partition, you are creating small equal shares.

Students will be able to partition rectangles and circles into halves and fourths/quarters. Students will be able to recognize equal shares, as well as identify non-examples. Students will identify that partitioning a whole or equal shares into more equal shares will result in smaller equal shares. Students will learn to utilize proper vocabulary when discussing fractions and will be able to identify fractions from an image properly.

Fractions

Day 1: Introduce Equal Shares

Mini Lesson: Introduce the purpose of the lesson today: to understand how to make equal shares.

- Introduce the Fractions Song
- Introduce the unit vocabulary.
- Explain that today students will be learning about what equal shares are and how to make them.
- Introduce the "Equal Shares" Anchor Chart.
- Explain to students how to "partition" (cut) something into equal shares. Be sure to stress that if the parts are not the same, they cannot be equal.
- Model drawing a circle and partitioning it incorrectly into unequal quarters. Ask students if this circle is partitioned into equal shares. Then model how to partition it correctly into fourths. Be sure to narrate and discuss how this is an example of equal shares because all the parts are the same.

Guided Practice: Pass out a piece of rectangular scrap paper to each student. Ask students to fold their rectangle into 2 equal parts. Have a few students share how they went about making equal parts. Then ask students to try folding their rectangle into 4 equal parts. Have a few students share their reasoning.

Independent Practice: Students complete the "Equal Parts Pizza Parlor" worksheet.

Day 2: Fractions; Halves

Mini Lesson: Introduce the purpose of the lesson today: to partition and identify halves of a whole.

- Watch and sing the Fractions Song.
- Review the unit vocabulary and the "Equal Shares" Anchor Chart.
- Introduce the "Fractions" Anchor Chart. Today, just highlight the "whole" and "halves."
- Explain what a whole is and what a half is.
- Draw 2 rectangles. Model one non-example and one correct example of partitioning the rectangle into halves. For the correct example, model both the center cut and the diagonal cut.

Day 2 continued . . .

Guided Practice: Place students in small groups of 3-4. Each group needs a “Halves cut and paste” paper and a “Halves Sort” paper. Groups will cut out the images on the “Halves cut and paste” paper and work together to glue them under “Equal Halves” or “Unequal.” Have groups share their sorts and rationale.

Independent Practice: Students complete the “Halves Bakery” worksheet.

Day 3: Fractions; Fourths/Quarters

Mini Lesson: Introduce the purpose of the lesson today: to partition and identify fourths or quarters of a whole.

- Watch and sing the Fractions Song.
- Review the unit vocabulary and the “Equal Shares” Anchor Chart.
- Review the “Fractions” Anchor Chart. Today, focus on the “Fourths or Quarters” part of the chart.
- Explain what a fourth or quarter is, be sure to highlight that these terms are interchangeable.
- Draw 2 circles. Model one non-example and one correct example of making fourths. Be sure to highlight the language use of saying either “fourths,” “quarters,” or “fourths of the whole.”

Guided Practice: Project or display the “Fourths/Quarters Rectangle” guided practice problems. As a class, work on partitioning the rectangle into quarters in 3 different ways. Be sure to have students use proper verbiage to describe each fraction you make.

Independent Practice: Students will complete the “Partition Fourths and Quarters” worksheet.

Day 4: Fractions; Mixed

Mini Lesson: Introduce the purpose of the lesson today: to understand and partition fractions into halves and quarters.

- Review the Fractions Song and unit vocabulary.
- Review the "Equal Parts" Anchor Chart and the "Fractions" Anchor Chart.
- Explain that today students will be learning about what equal shares are and how to make them.
- Explain to students that when they make equal shares such as halves or quarters, they are making smaller parts than the original whole.
- Demonstrate this thinking by displaying the two Model Fraction Word Problems. For each problem, discuss which fraction of the "treat" you would want and why. As you discuss the thinking, be sure to compare the two fractions by discussing which one is small and which is bigger.

Guided Practice: As a class, play the "Who has more?" fraction game. Pass out a fraction card to each student. Once students have their cards, ask them to find a classmate with a matching image. Once they have found each other, they have to determine who has the bigger fraction or who is getting "more" of the item on their card. Have pairs share out. Ask students to use proper verbiage when discussing whole, halves, and fourths/quarters.

Independent Practice: Students complete the mini-book.

Day 5: Fractions; Mixed

Mini Lesson: Introduce the purpose of the lesson today: to understand and partition fractions into halves and quarters.

- Review the Fractions Song and unit vocabulary.
- Review the "Equal Parts" Anchor Chart and the "Fractions" Anchor Chart.
- Explain to students that today they will be working with partitioning shapes into halves and fourths/quarters.
- Model partitioning a circle into halves and explain your thinking. Then model partitioning a rectangle into fourths and explain your thinking.

Guided Practice: Shaving cream! This is a super fun guided practice activity for students to physically practice partitioning shapes. Follow the directions on the “Shaving Cream Fractions” page. Students will draw shapes in the shaving cream and portion them according to your directions.

Independent Practice: Students complete the “Mixed Fractions” worksheet.

Day 6: Review

Mini Lesson: Introduce the purpose of the lesson today: to review how to identify and partition shapes into halves and fourths/quarters.

- Watch and sing the Fractions Song.
- Review the unit vocabulary and the “Equal Shares” Anchor Chart and “Fractions” Anchor Chart.
- Teach students how to play the “Pizza Parlor Partitioners” game.

Guided Practice: students will play the “Pizza Parlor Partitioners” game in small groups or in pairs.

Independent Practice: Students will complete the problem solver.

Day 7: Fractions; Partition into Halves and Quarters

Mini Lesson: Introduce the purpose of the lesson today: to identify and partition shapes into halves and fourths/quarters.

- Watch and sing the Fractions Song.
- Review the unit vocabulary and the “Equal Shares” Anchor Chart and “Fractions” Anchor Chart.

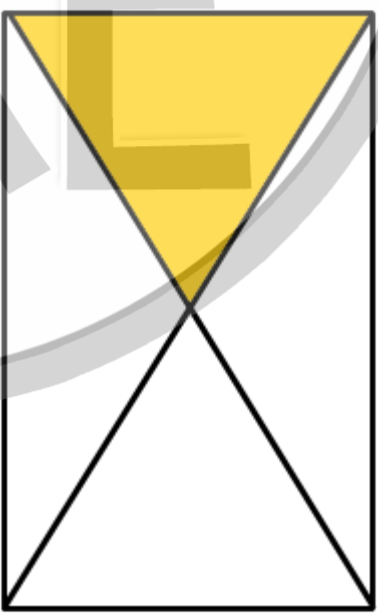
Guided Practice: Students play the “Pizza Parlor Partitioners” game from the review day.

Independent Practice: Fractions and Partitioning into Halves and Quarters Quiz.

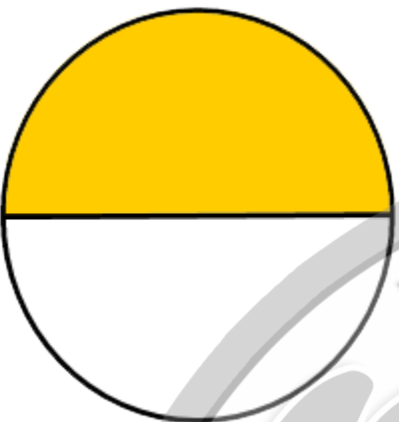
Whole



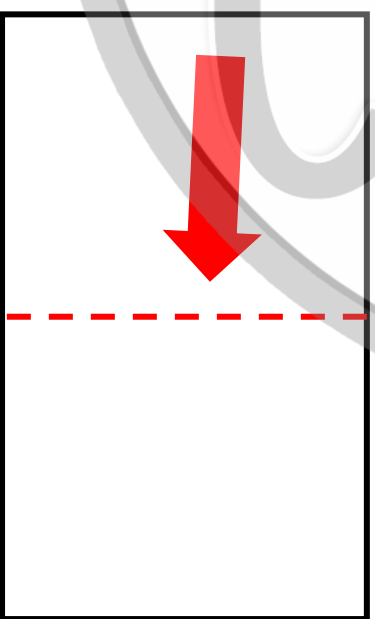
Fourths/Quarters



Halves



Partition

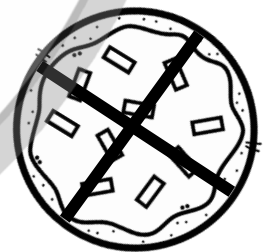


Fractions Song

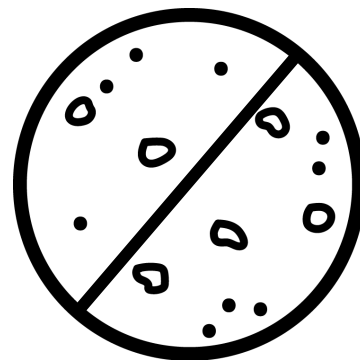
A tiny part or a small amount
Proportions are what fractions
Are all about
Some shares are equal
And some are not
You have to look
And see what you got
Oh here's a few equal fractions you should know



First we start with a shape that's whole
Nothing is divided yet it's still very full
Next we cut it in half to get two equal parts
Now we get two halves unlike the whole from the start
And finally we can cut it into 4 quarters
That divides it more so the pieces get shorter oh



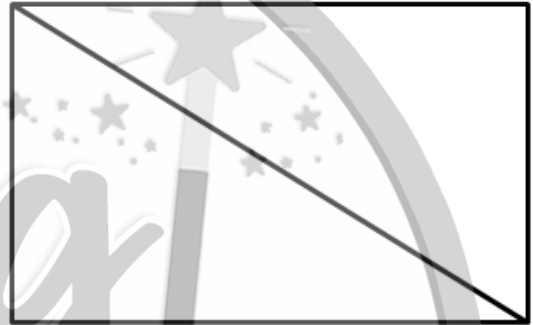
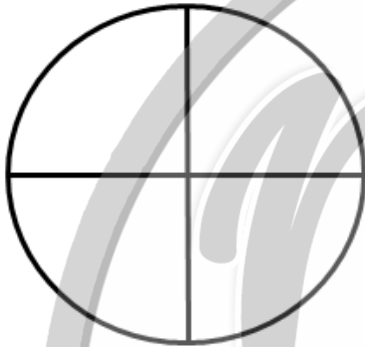
A tiny part or a small amount
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Are all about
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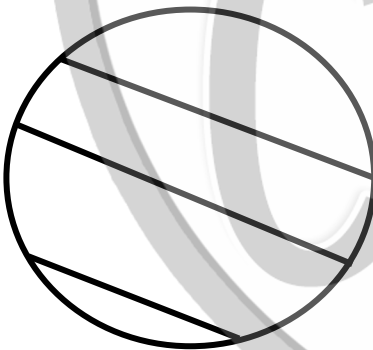
Equal Shares

We can divide objects and shapes into equal shares. When the parts are the same, they are equal shares.

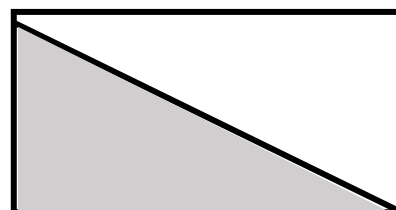
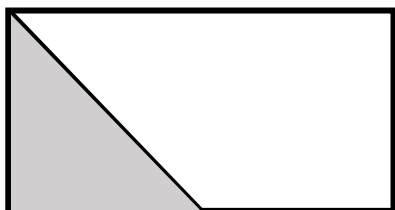
Equal Shares



Un-equal Shares



Which piece would you rather have?
Is it equal or unequal?

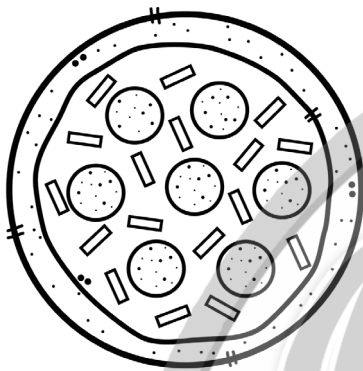


Name: _____ Date: _____

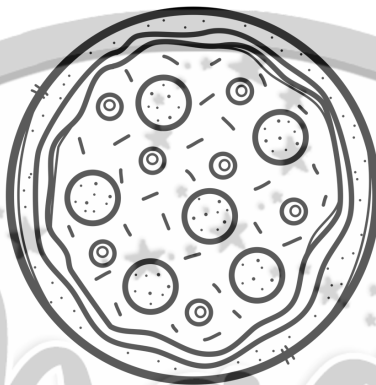
Equal Parts Pizza Parlor

Directions: Help cut pizzas at the pizza parlor! Partition the pizzas into equal parts.

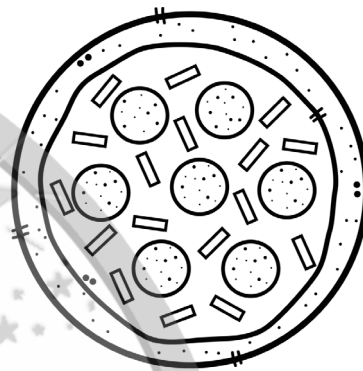
1. Partition this pizza into
2 equal parts



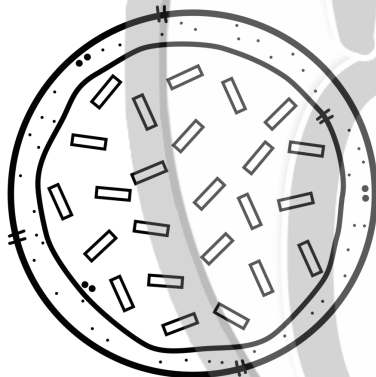
2. Partition this pizza into
4 equal parts



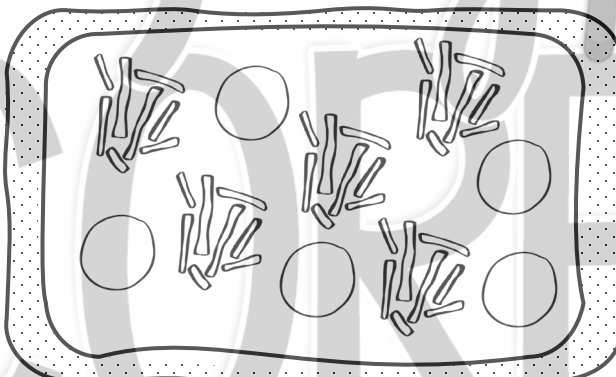
3. Partition this pizza into
2 equal parts



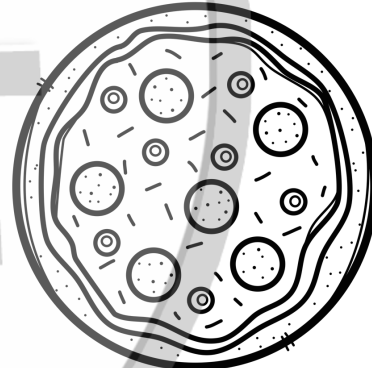
4. Partition this pizza into
4 equal parts



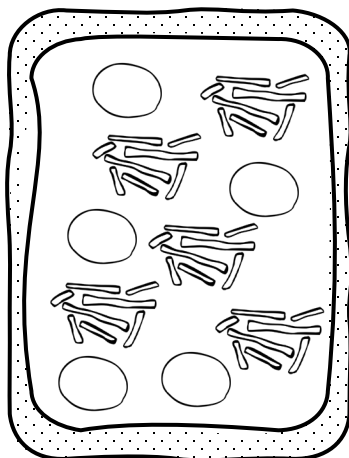
5. Partition this pizza into
4 equal parts



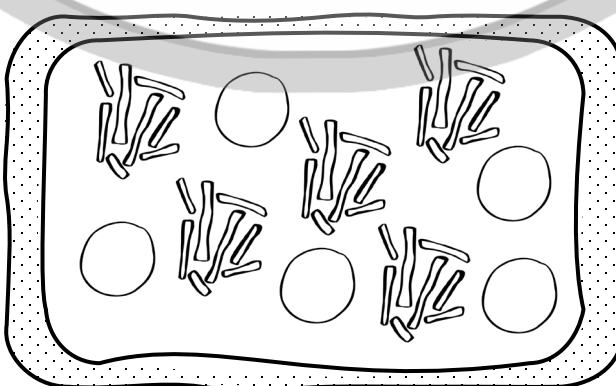
6. Partition this pizza into
2 equal parts



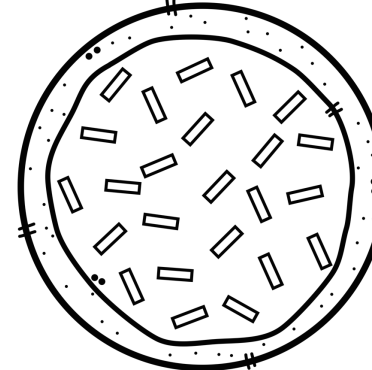
7. Partition this pizza into
2 equal parts



8. Partition this pizza into
4 equal parts



9. Partition this pizza into
4 equal parts



Fractions

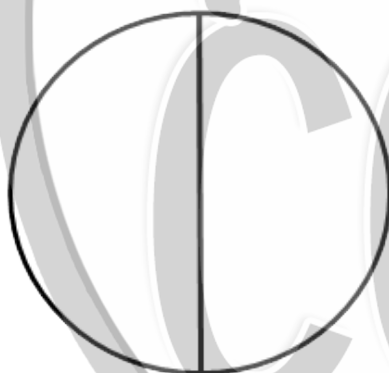
Fractions are what we call equal shares of a whole set.

Whole



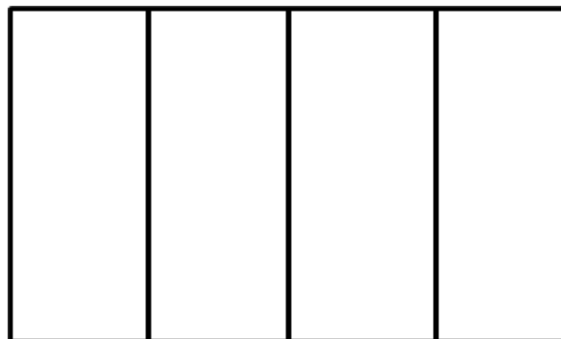
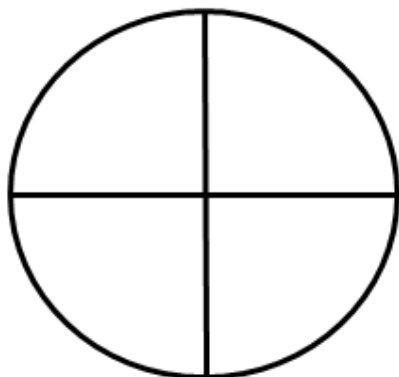
Halves or Half-of

2 Equal Parts



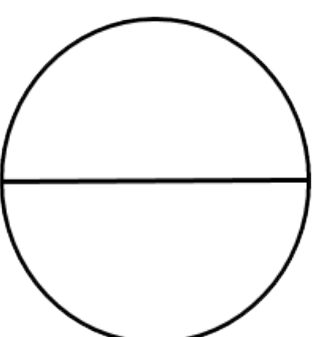
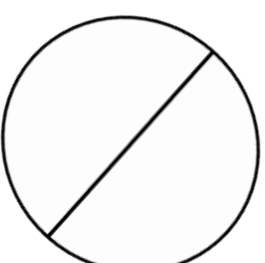
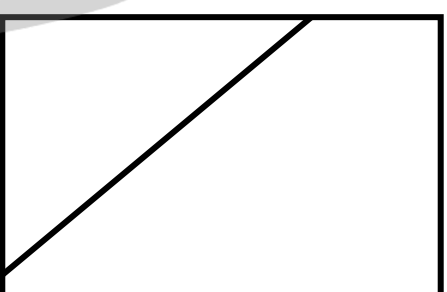
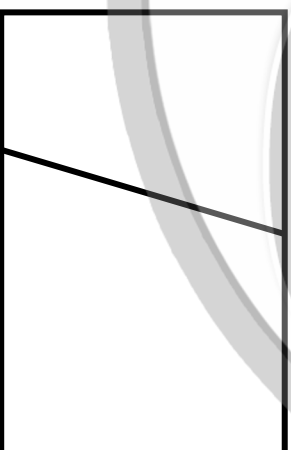
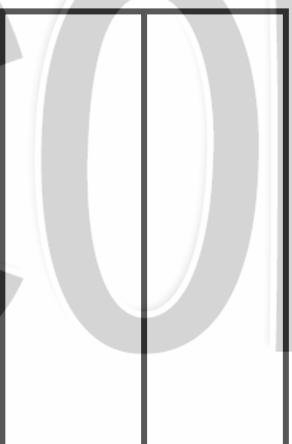
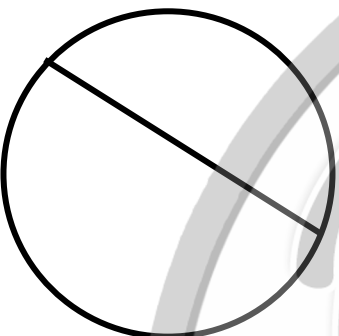
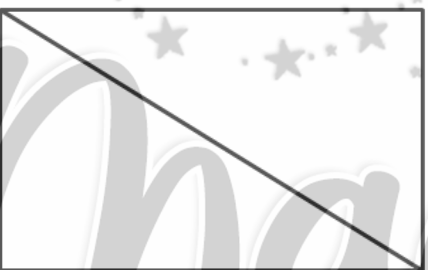
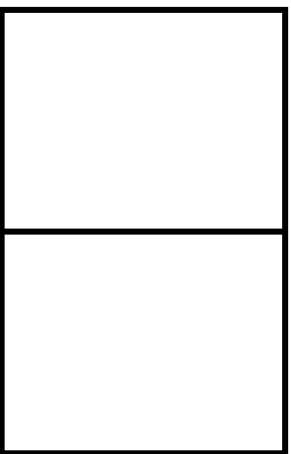
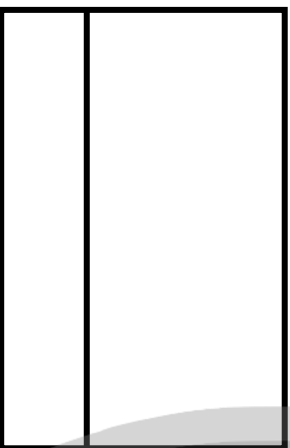
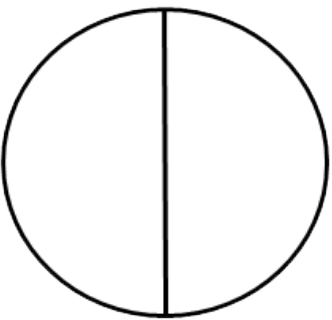
Fourths, Quarters, or Quarter of

4 Equal Parts



Halves Cut and Paste

Directions: Cut out these fractions. Sort them by gluing each fraction under “Equal Halves” or “Unequal.”

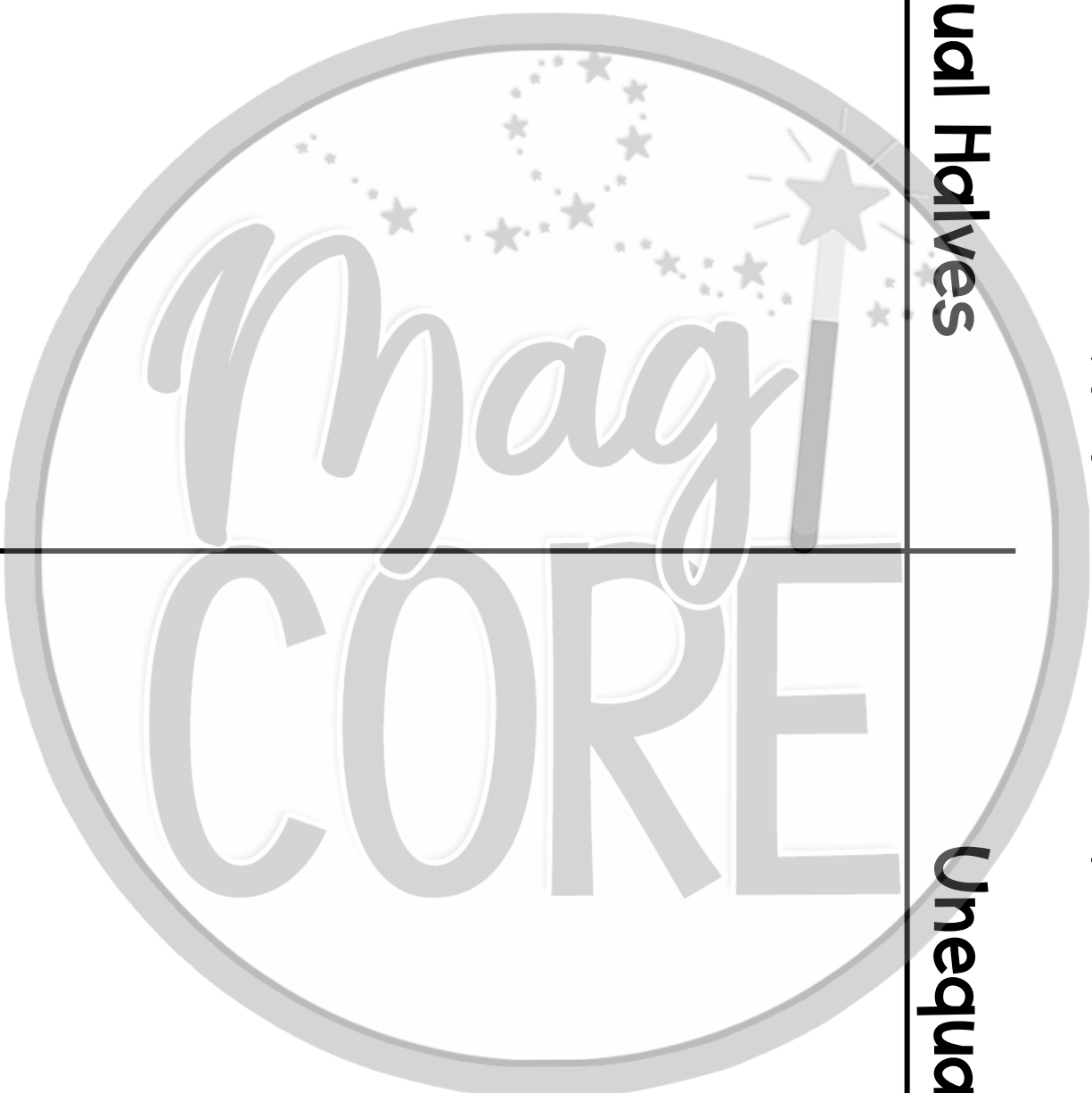


Halves Sort

Directions: Sort the fractions by gluing each fraction under “Equal Halves” or “Unequal.”

Equal Halves

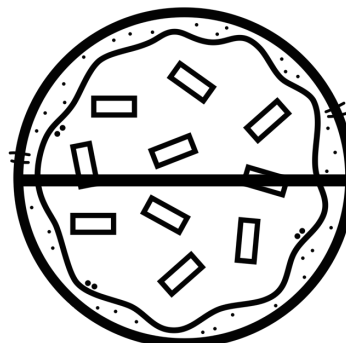
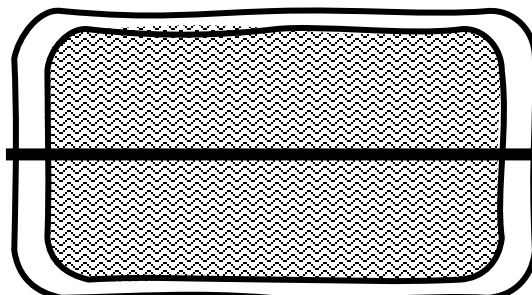
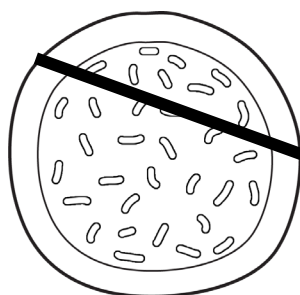
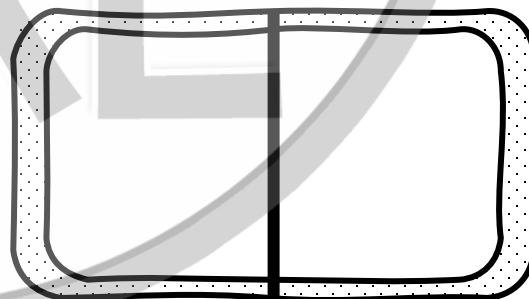
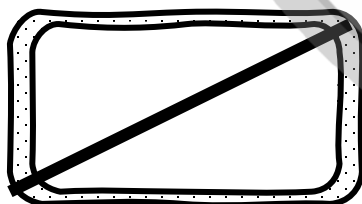
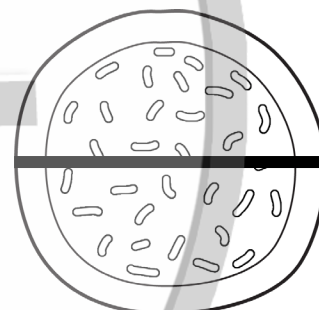
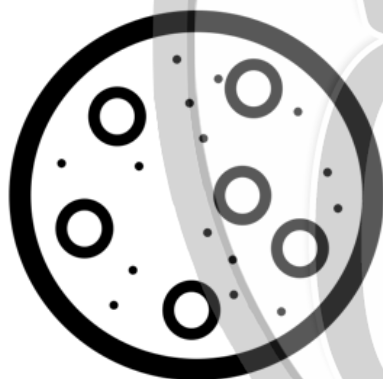
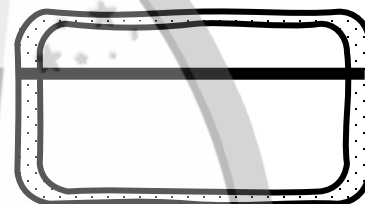
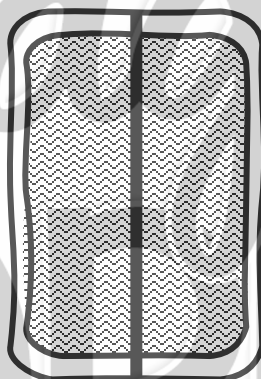
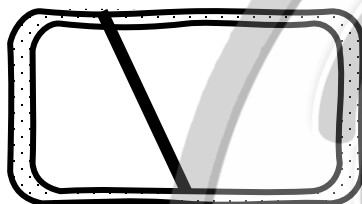
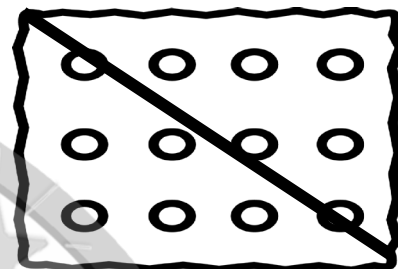
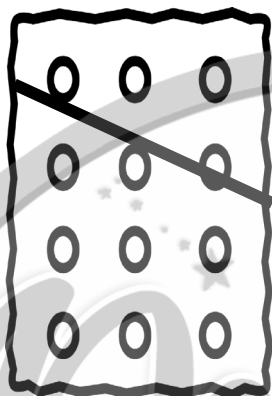
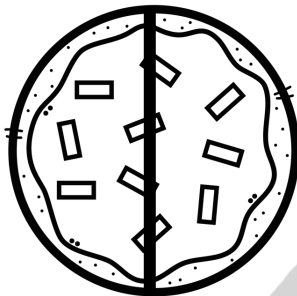
Unequal



Name: _____ Date: _____

Halves Bakery

Directions: Look at the bakery items. Color in all the bakery items that are properly partitioned into halves.



Fourths/Quarters Rectangle Guided Practice

Partition the rectangles into quarters in 3 different ways.

1



2



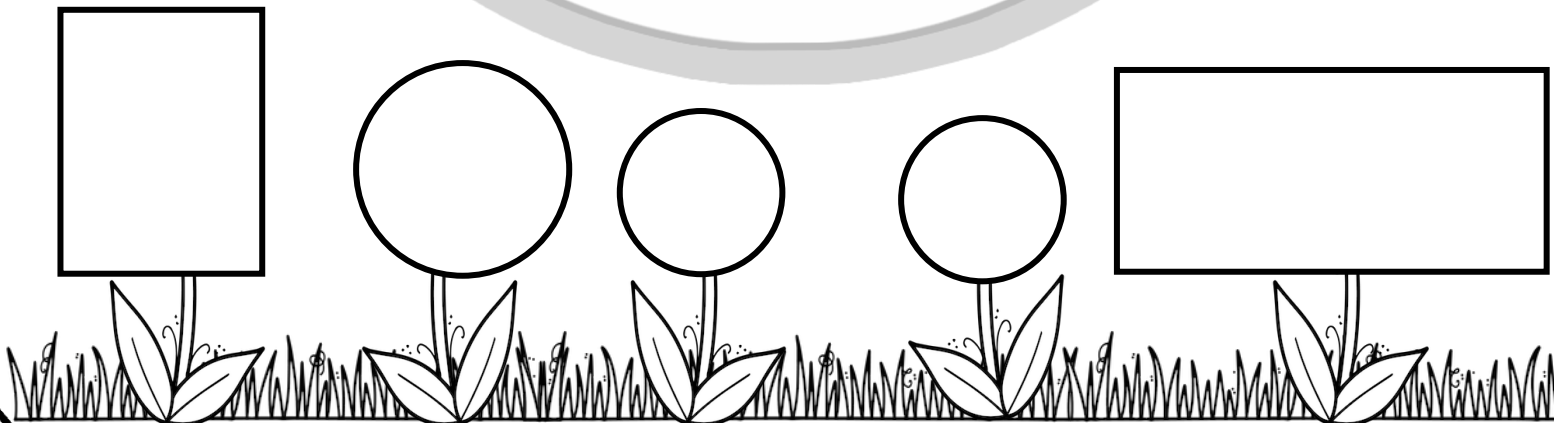
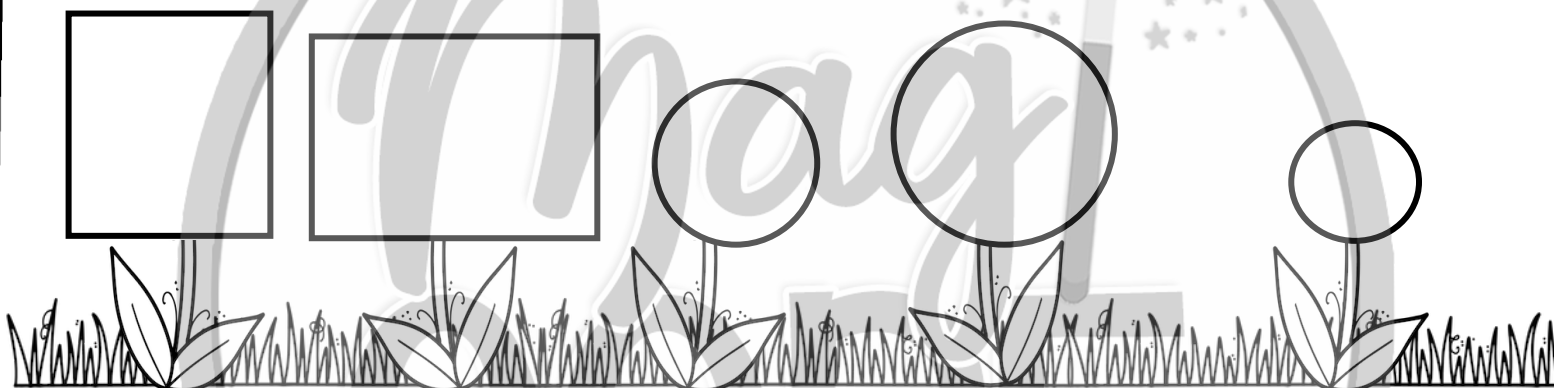
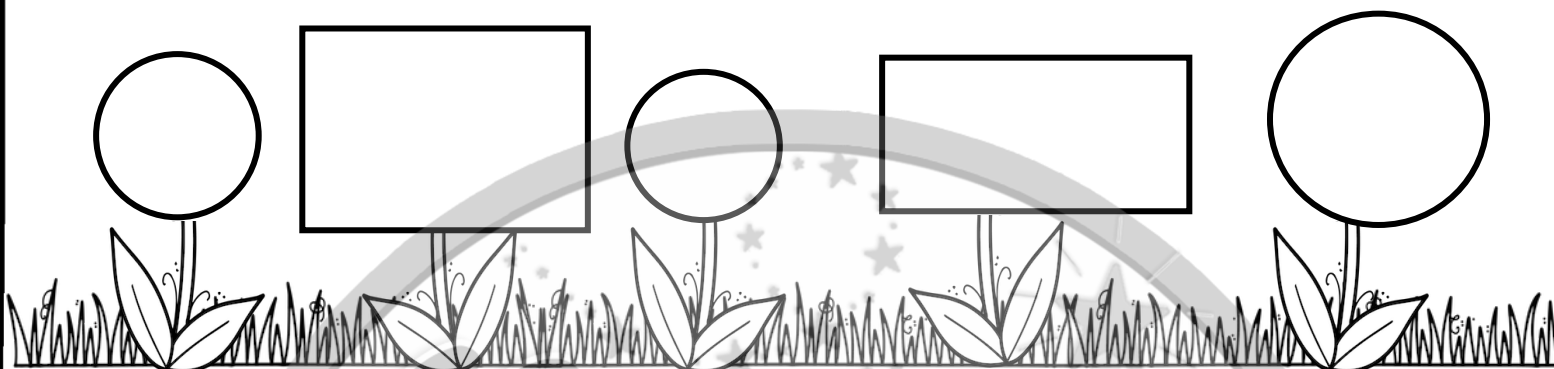
3



Name: _____ Date: _____

Partition Fourths and Quarters

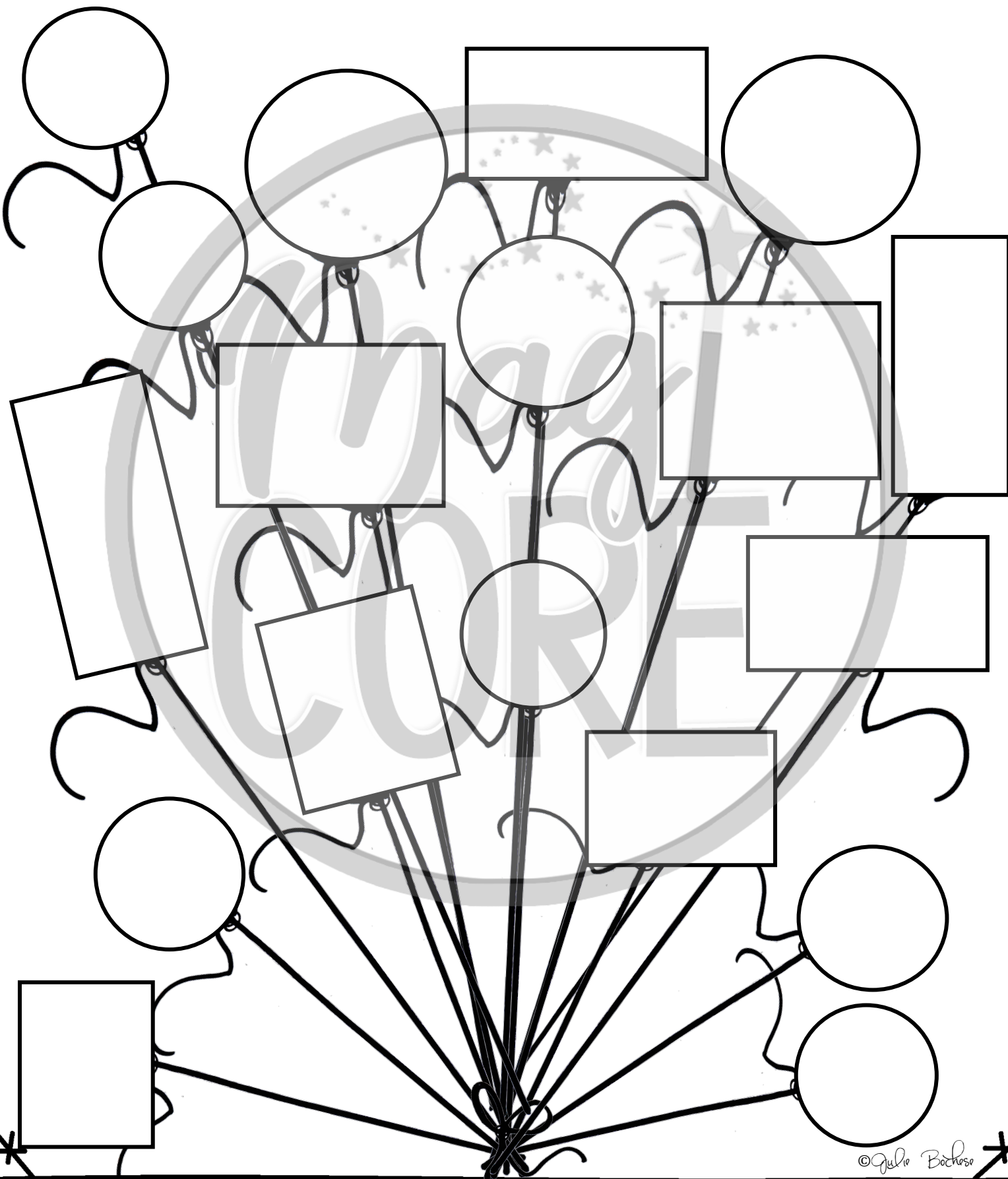
Directions: Help out in the garden! Partition the flowers into fourths.



Name: _____ Date: _____

Partition Fourths and Quarters

Directions: Help out with the balloons! Partition the balloons into fourths.

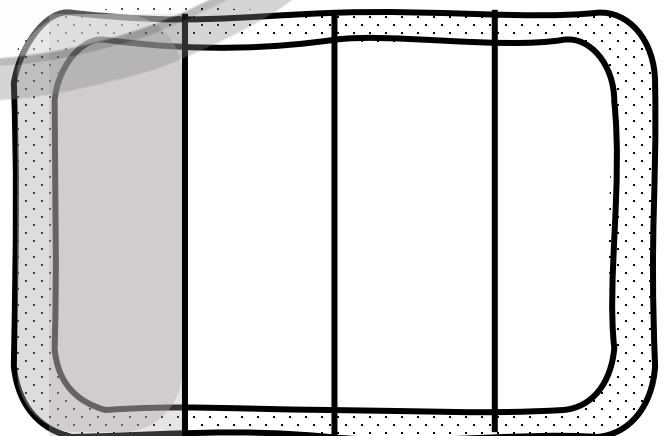
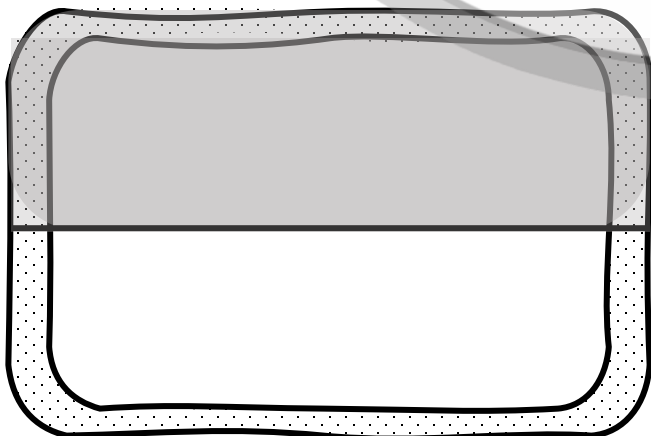
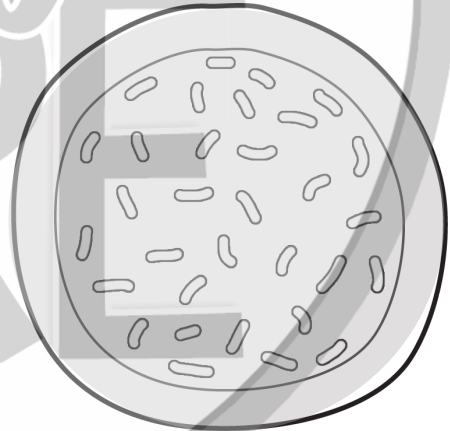
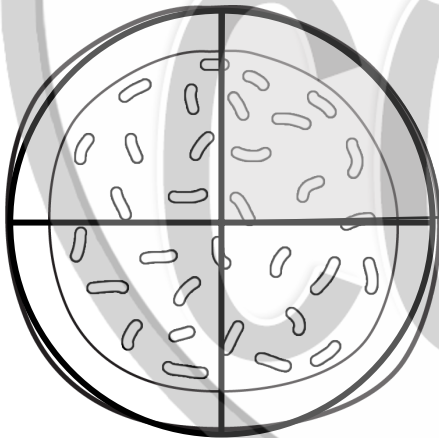
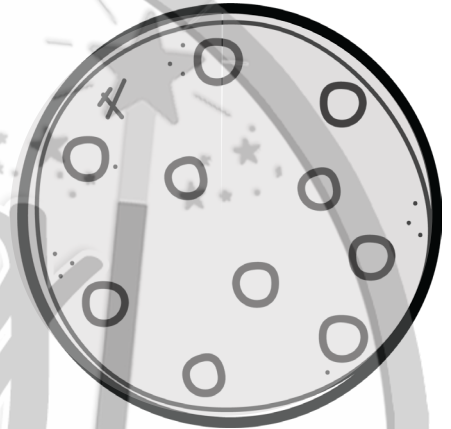
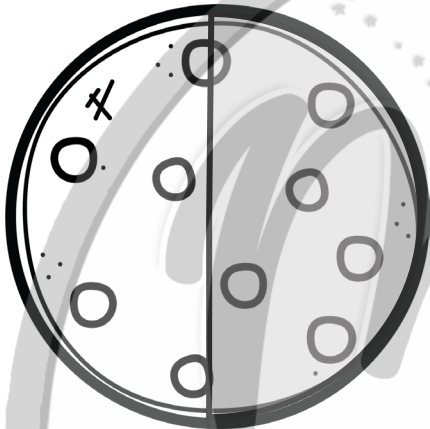
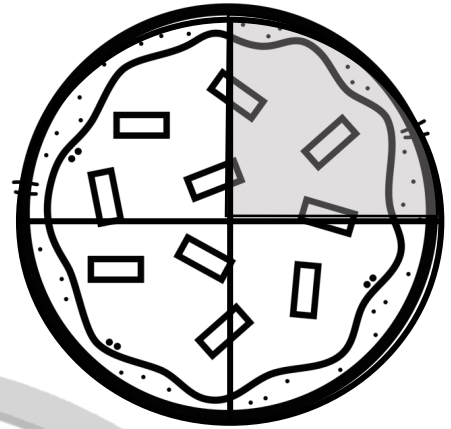
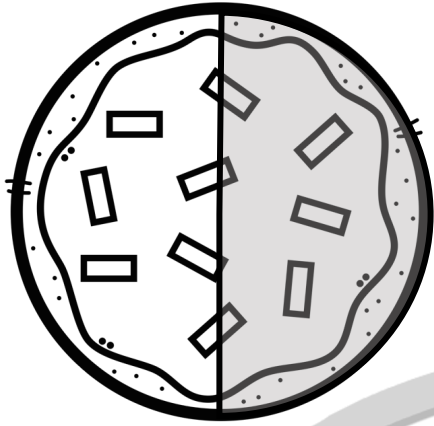


Who Has More? Guided Practice Activity

Directions:

Print, cut out, and laminate a fraction card for each student. Once students have their cards, ask them to find a classmate with a matching image. Once they have found each other, they have to determine who has the bigger fraction or who is getting “more” of the item on their card. Have pairs share out.

Ask students to use proper verbiage when discussing whole, halves, and fourths/quarters.



Fraction Factory

Partition and Identify Halves and
Quarters



By: _____

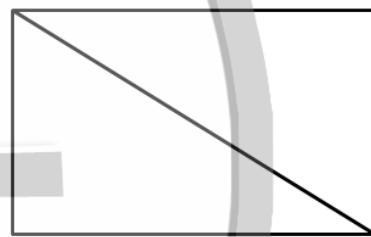
Date: _____

When we partition something into equal shares, we create a fraction.

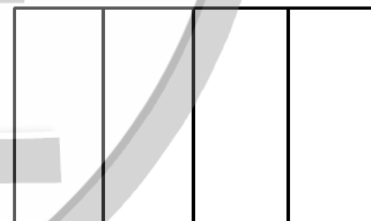
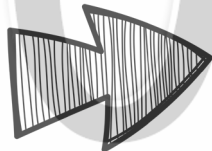
Whole



Halves or
Half-of



Fourths,
Quarters, or
Quarter of



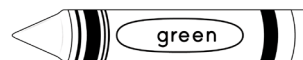
Halves are 2 equal parts of a whole. Quarters or fourths are 4 equal parts of a whole.

Look at the fractions.

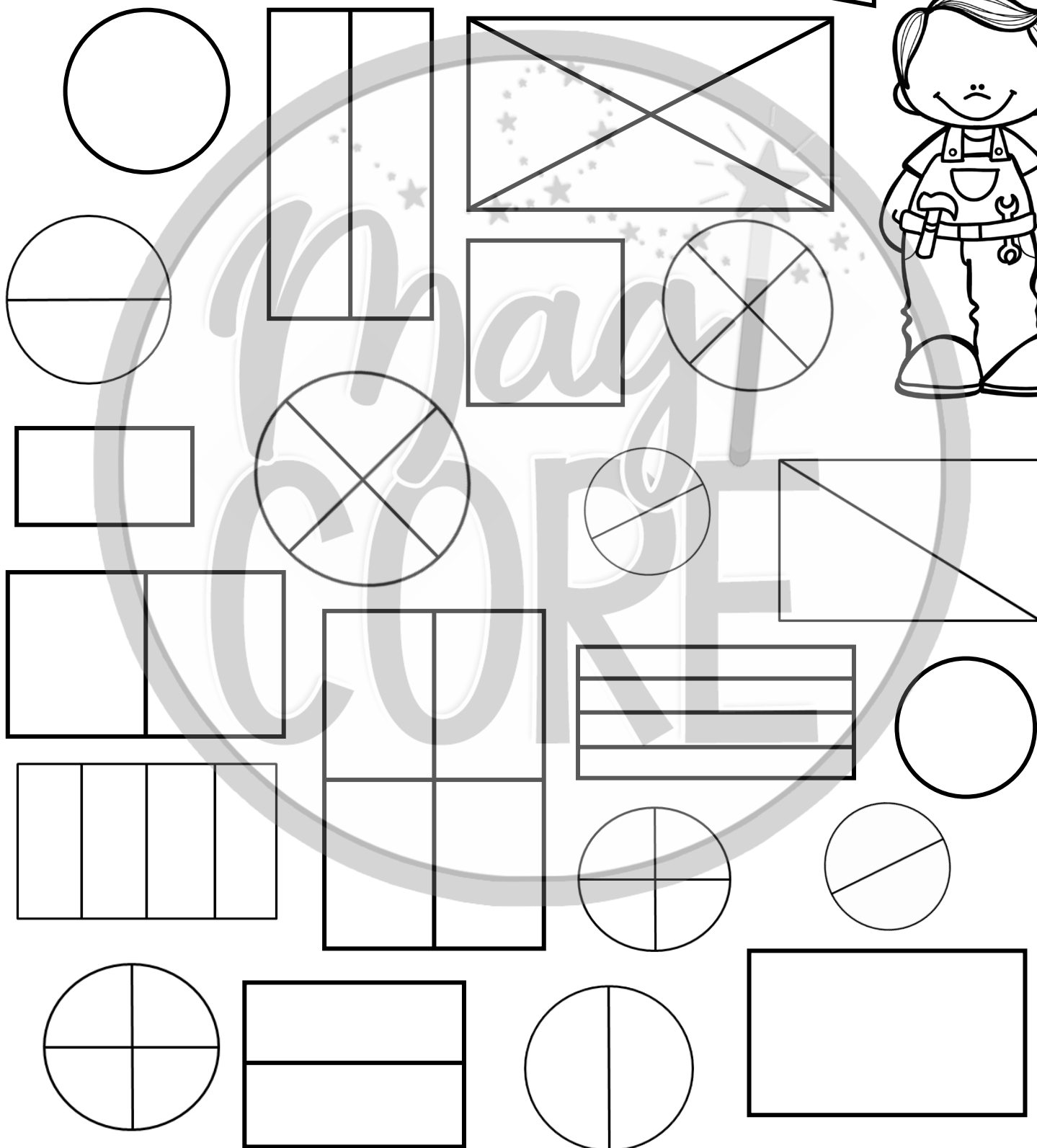
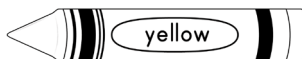
Color in the HALVES



Color in the FOURTHS or QUARTERS

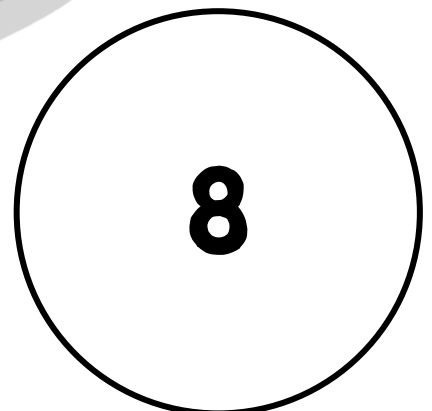
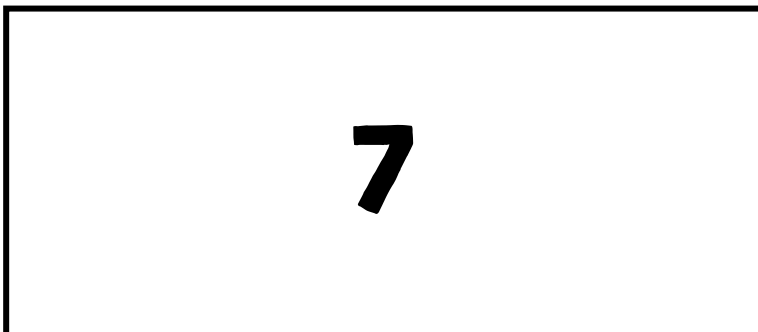
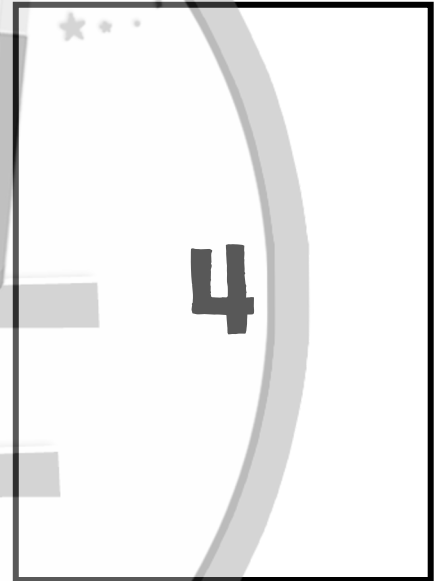


Color in the WHOLES





Partition each shape into
HALVES!



Shaving Cream Activity

Directions:

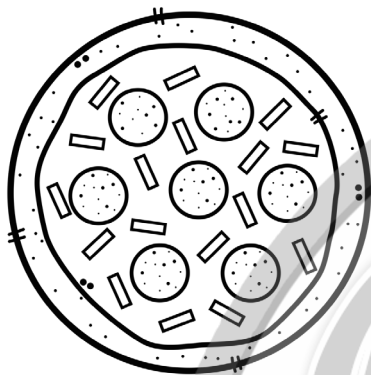
- Make sure you have enough shaving cream for your class (usually 2 bottles are enough for a class of 20).
- Have students clear their desks.
- Put a spray of shaving cream down on each student's desk and ask them to spread it all around in a thin sheet.
- Once students are ready, call out shapes and fractions you want the students to make.
- Circulate to check work.
- When students are done, have them wipe off their desks with wipes. The shaving cream will actually help get their desks sparkling clean!
- Suggested directions to call out:
 - Draw a rectangle and partition it into halves
 - Draw a rectangle and partition it into fourths
 - Draw a circle and partition it into halves
 - Draw a circle and partition it into fourths
 - Draw a cookie and split the cookie up for you and 3 friends.
 - Draw a brownie and split the brownie up for you and your teacher.

Name: _____ Date: _____

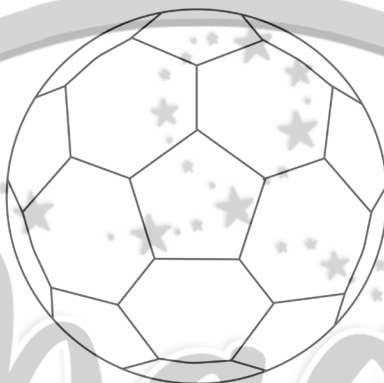
Mixed Fractions

Directions: Partition the shapes.

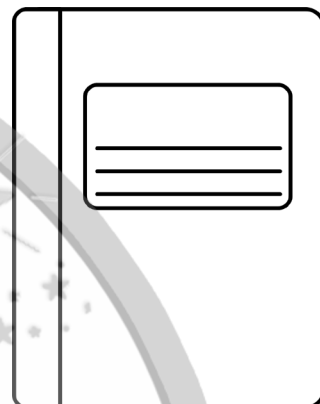
1. 2 Equal Shares



2. Quarters of a whole



3. Halves



4. Fourths



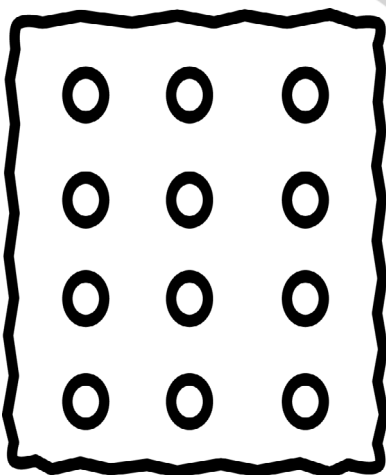
5. 4 Equal Shares



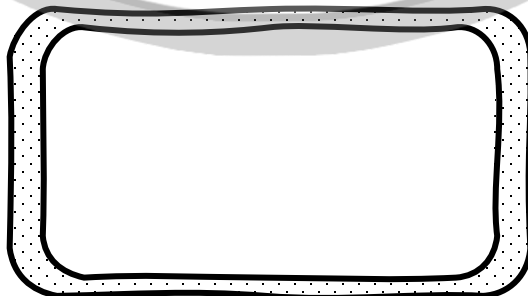
6. Half of a whole



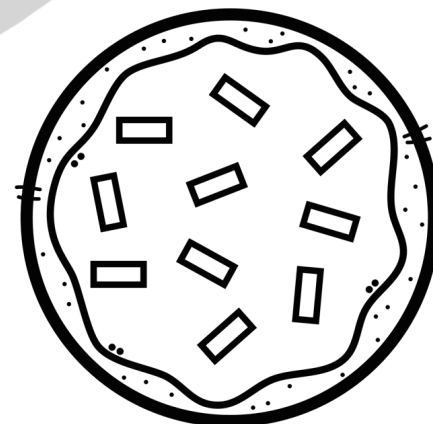
7. Fourths of a whole



8. Halves



9. Quarters



Name: _____ Date: _____

Mixed Fractions

Directions: Cut and paste the fractions to sort them correctly

Halves

Fourths or Quarters

Whole



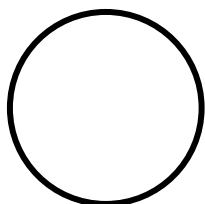
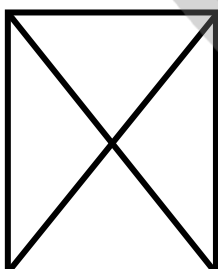
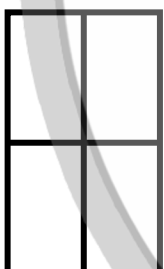
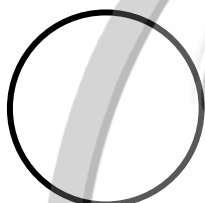
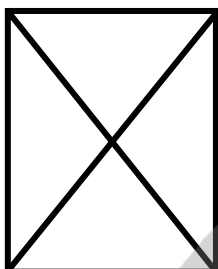
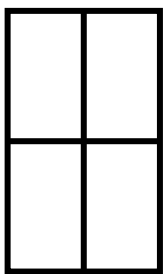
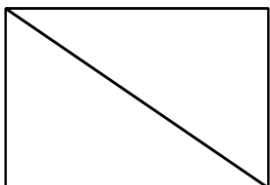
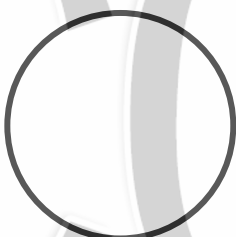
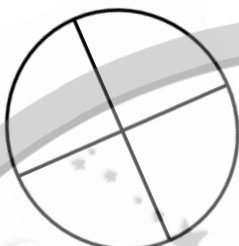
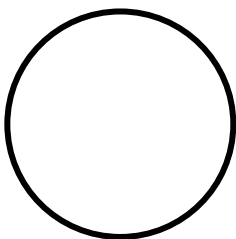
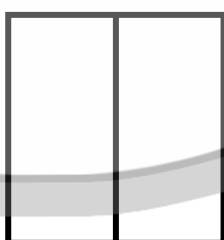
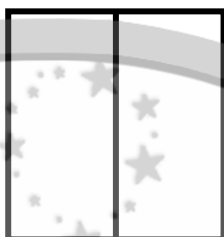
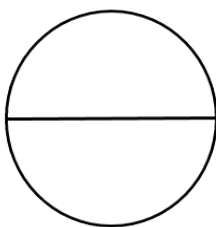
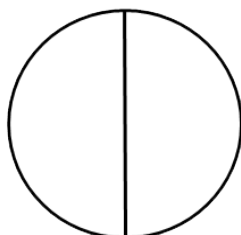
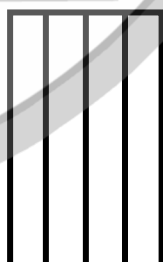
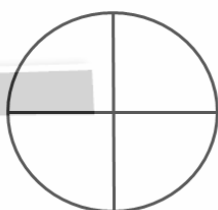
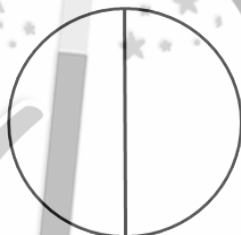
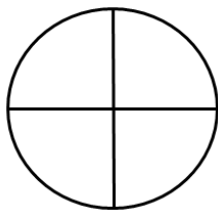
Directions:

Cut out the fraction and paste it correctly.



Directions:

Cut out the fraction and paste it correctly.



Pizza Parlor Partitioners Game

Directions:

1. Print out playing cards.
2. Laminate and cut out.
3. Place the playing cards in a Ziploc bag.
4. Students can work individually, in pairs, or in small groups.
5. Students will sort the fraction cards by "Halves," "Fourths or Quarters," "Wholes," and "Unequal Shares."

Label

Pizza Parlor Partitioners Game

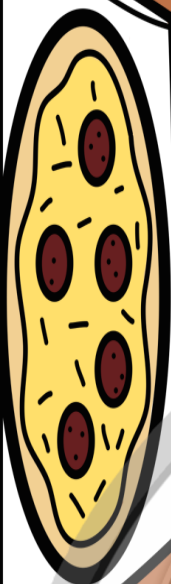


Directions: Help the chef at the pizza parlor sort his pizzas for delivery. Sort the fractions under "Halves," "Fourths or Quarters," "Wholes," or "Unequal Shares."

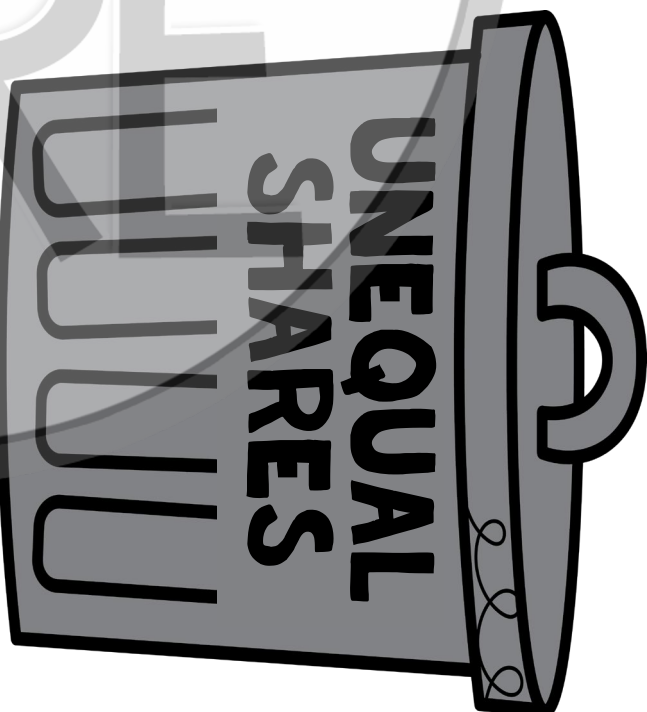
HALVES



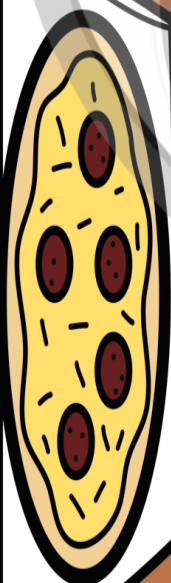
**FOURTHS/
QUARTERS**

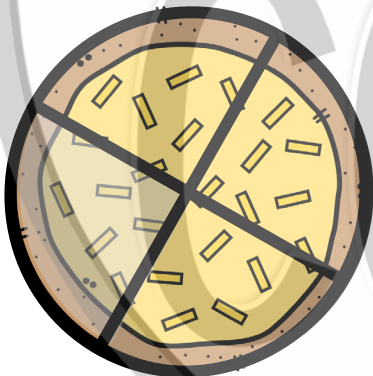
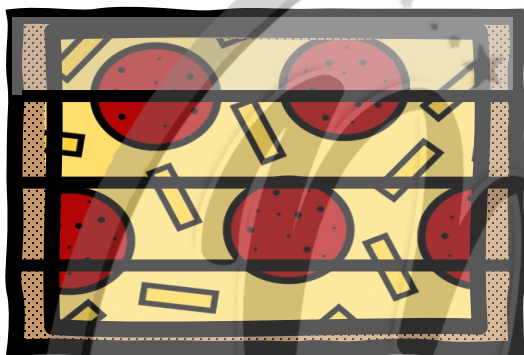
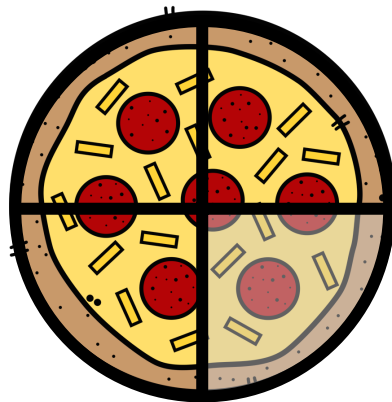
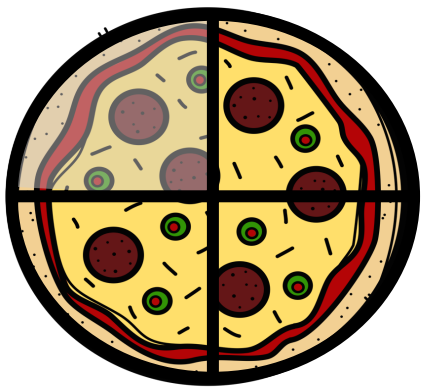


**UNEQUAL
SHARES**



WHOLE





Name: _____ Date: _____

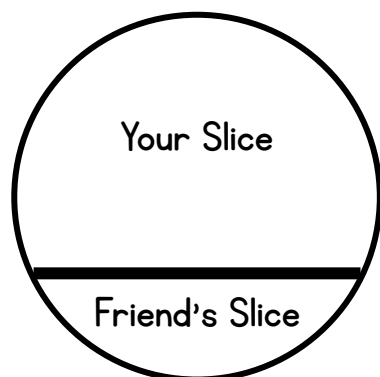
Problem Solver

Solve the word problems.

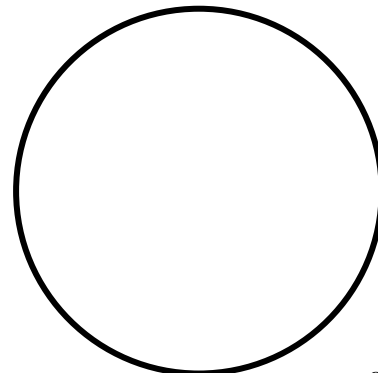
1. Jill is slicing up a tray of brownies for herself and her 3 friends. Partition the brownie so Jill and her 3 friends can each have a piece.



2. You are sharing a cookie with your friend. You partition the cookie and give your friend their piece. Your friend is unhappy. Look at the image, why would your friend be unhappy? Partition the new cookie so you and your friend are both happy with your piece.



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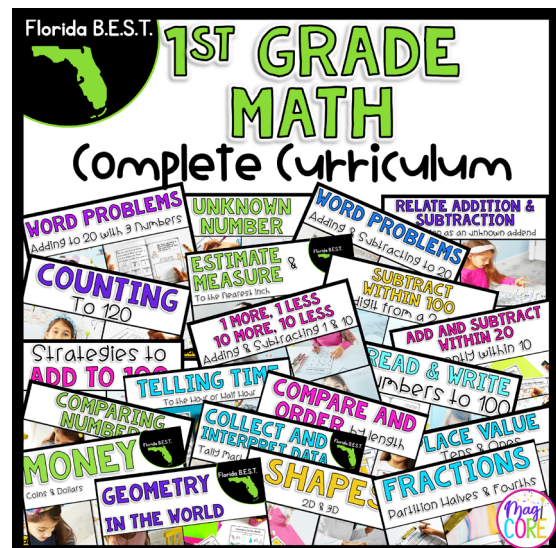
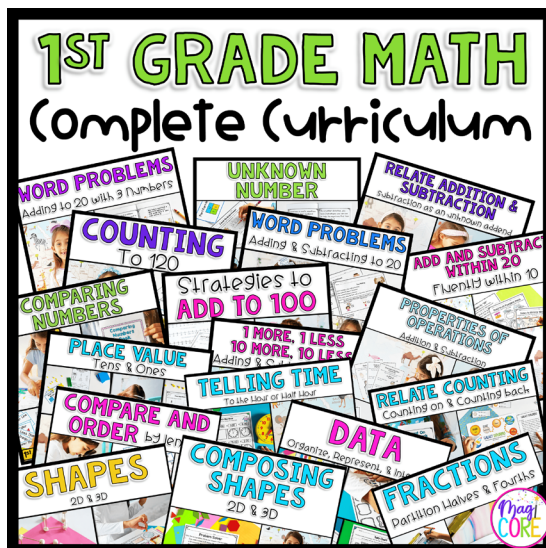
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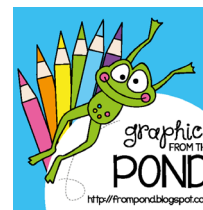
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