

1

Purposeful Design

MATHEMATICS

THIRD EDITION

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LM 8.1A Chapter 8 Parent Letter



Dear Parents,

Fractions are the focus of Chapter 8 in the Purposeful Design Mathematics series. The emphasis on hands-on learning is continued by having students use pattern blocks to make different shapes and to find various fractional parts of those shapes. For example, your child will discover that three triangles can be combined to make a trapezoid and that two trapezoids can be combined to make a hexagon.

The triangles are one-third of the trapezoid and the trapezoids are one-half of the hexagon.

Your child will also learn about fractional parts of whole shapes and sets of objects. The main focus will be on one-half, one-third, and one-fourth, but your child will also learn two-thirds, two-fourths, and three-fourths of a whole shape or a set.

You can assist your child in learning these basic fractions in your daily routine. For example, while you are cooking, you might ask your child to find the desired fraction on a measuring cup. Have your child name fractional parts of an apple, a bunch of grapes, or a sandwich. Ask your child to tell you where to cut a banana to make two halves or how to cut a sandwich into fourths. Make equal and unequal divisions of a piece of fruit or a slice of bread to remind your child that fractions must have equal parts. Ask your child to identify fractions and their uses to underscore the importance of fractions in daily life.

Enjoy the whole chapter, and all its parts, with your special first grader!



LM 8.1B Project: Action Fractions Description

The following project can be used as an additional activity or an informal assessment for fraction concepts presented in Chapter 8.

- Print **LM 8.1C Project: Action Fractions** for students to learn how to make and play the game Action Fractions.
- Print the game pieces from **LMs 8.1D–F Project: Action Fractions** and the game cards from **LM 8.1G Project: Action Fractions** on card stock. The game cards must be printed double-sided so that students can turn the card to the answer side for checking.
- Students will need scissors and markers or crayons to color the printed side of the game pieces. They will need a ziplock bag to store the game pieces and game cards.
- Once students have the colored game pieces, they may cut them out on the dotted lines. Note: Both sides of the game pieces will be used. The colored side is always the numerator (top numeral) and the white side is always the denominator (bottom number) in each fraction.
- Students will play the game with a partner or at home with a parent. Plan to allow several days for students to play with different partners and at home.
- Have students complete the project. They may then use the rubric on LM 8.1C as a checklist for self-assessment.
- Use the teacher portion of the rubric to assess student work and then send it home.



Name _____

LM 8.1C Project: Action Fractions

- Color and cut out the game pieces found on **LMs 8.1D–F Project: Action Fractions**. Both the colored side and the white side of the game pieces will be used.
- Cut out the game cards on **LM 8.1G Project: Action Fractions**. Keep the directions so you will know how to play the game. The question side of each game card has words; the answer side has only pictures.
- Invite a friend or family member to play the game. Explain the rules of the game. Tell your friend or family member what a fraction is.
- Take turns and play the game at least twice.

Use the following as a checklist for your project. When you have checked all the boxes in the first column, you are finished!

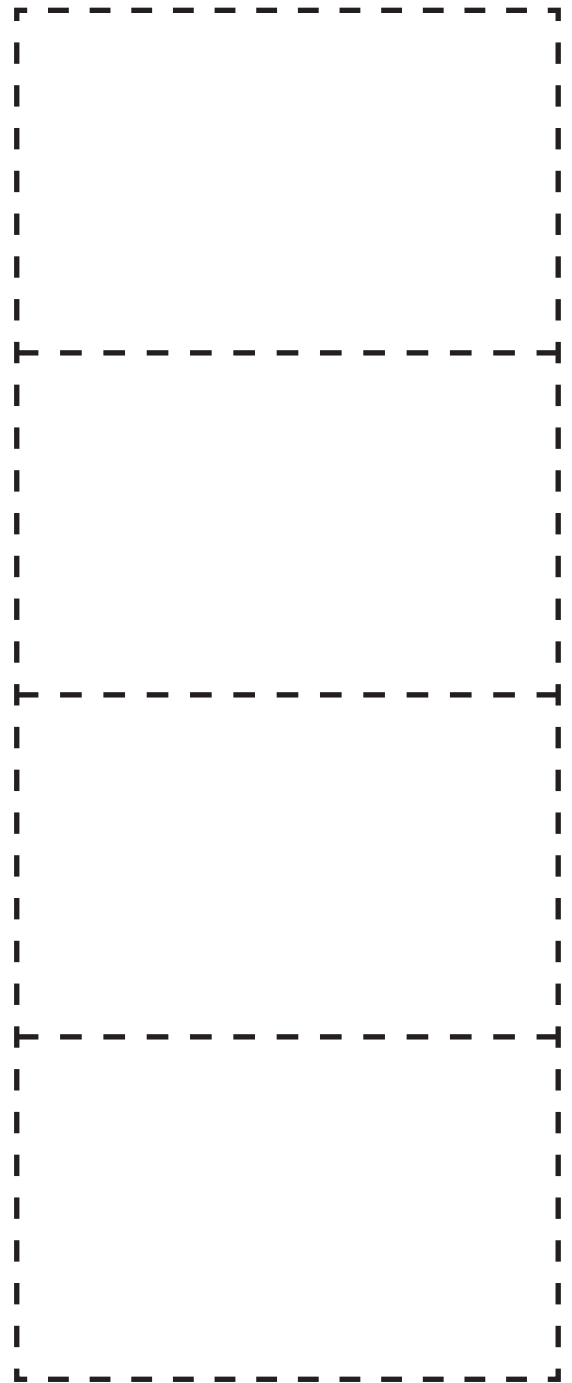
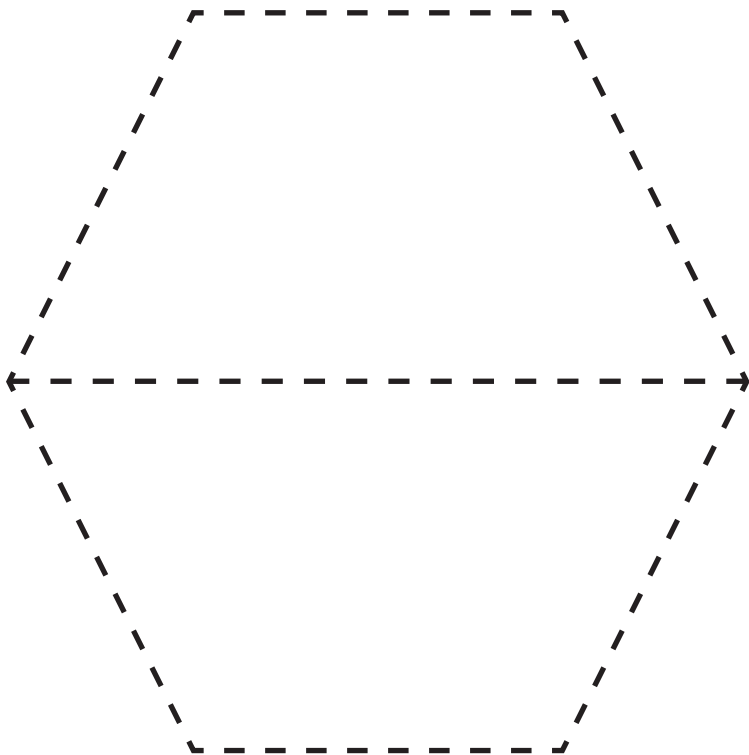
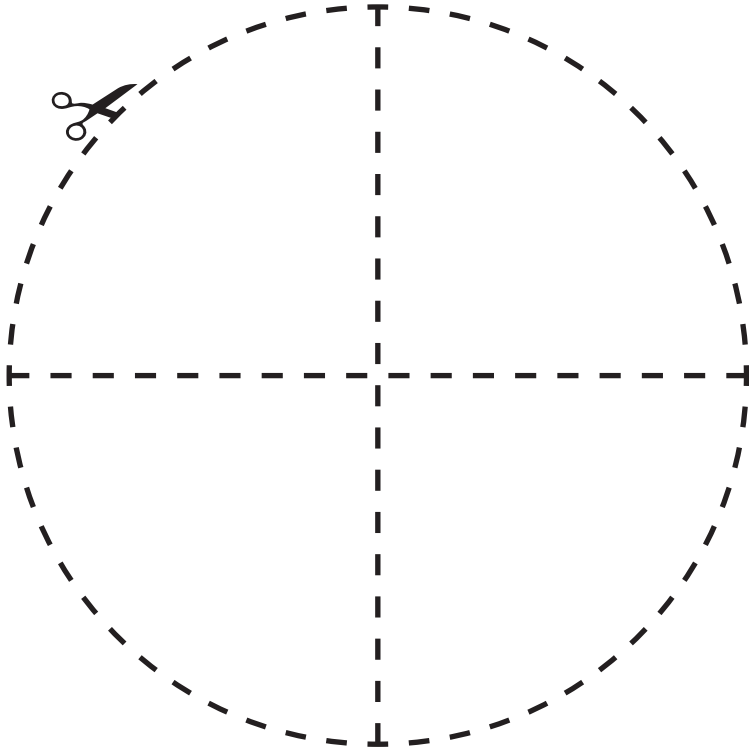
student		teacher
☐	I colored and cut out the fraction pieces.	☐
☐	I cut out the game cards. I put them question side up.	☐
☐	I played the game with a friend or family member. I explained what a fraction is.	☐
☐	I played the game two times. I used the back of the game cards to check my answers.	☐
	Total	☐

Scoring Guide: 4 Excellent 3 Well done 2 Good 1 Needs work
Teacher Comments:



LM 8.1D Project: Action Fractions

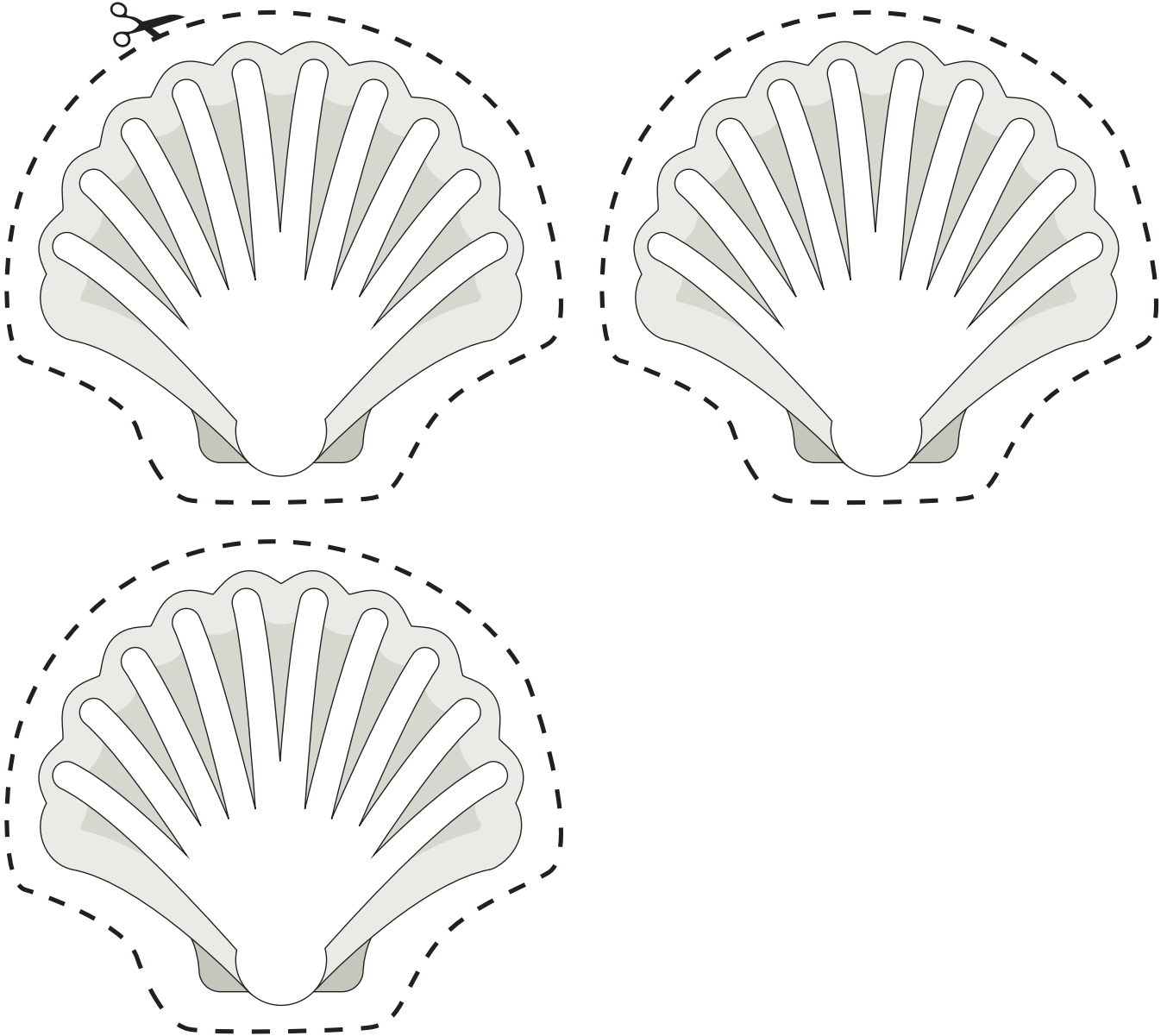
Color all the game pieces. Cut out the pieces on the dotted lines.





LM 8.1E Project: Action Fractions

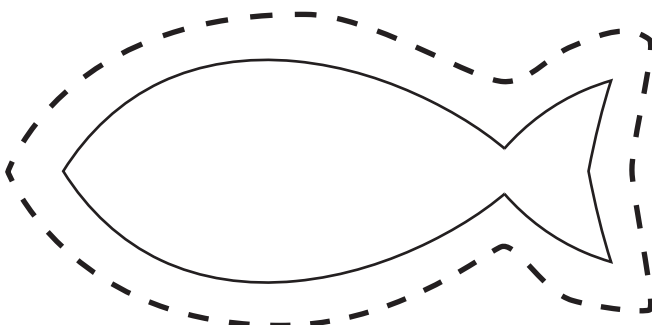
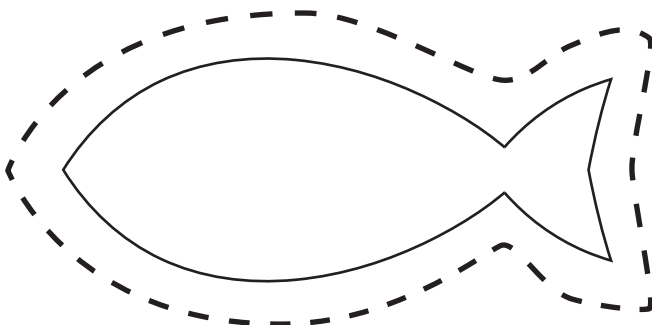
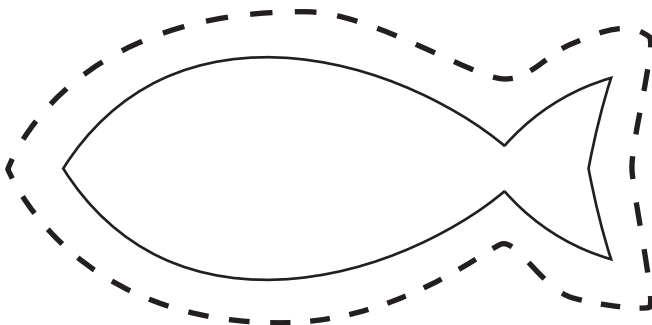
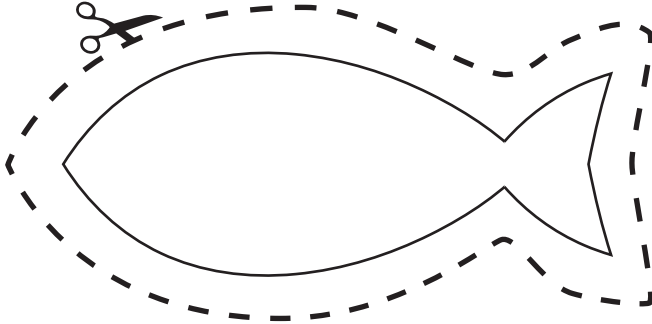
Color the game pieces. Cut out on the dotted lines.





LM 8.1F Project: Action Fractions

Color the game pieces. Cut out on the dotted lines.



Name _____

LM 8.1G Project: Action Fractions

To play Action Fractions:

1. Color the game pieces on **LMs 8.1D–F Project: Action Fractions** and cut them out. Cut out the fraction cards on this page. The side of the fraction cards with the words is the question side; the side with the pictures is the answer side.
2. Invite a friend or family member to play. Choose a fraction card and read the fraction. Make the fraction with the game pieces that are shown on the card. Use the colored sides of the game pieces to show the top number in the fraction. Turn the fraction card over to check your answers. Keep score.
3. When all the cards have been used, the player who made the most correct fractions may begin the next game.



Fraction Cards

$\frac{2}{3}$ of the 	$\frac{1}{2}$ of the 	$\frac{3}{4}$ of the 	$\frac{1}{3}$ of the
$\frac{1}{2}$ of the 	$\frac{3}{4}$ of the 	$\frac{1}{4}$ of the 	$\frac{2}{4}$ of the
$\frac{1}{4}$ of the 	$\frac{3}{4}$ of the 	$\frac{2}{4}$ of the 	$\frac{1}{4}$ of the

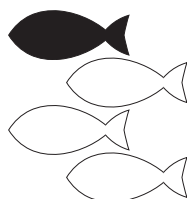
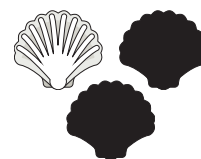
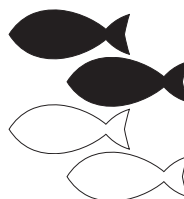
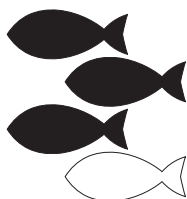
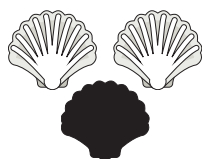


LM 8.1G Project: Action Fractions

To play Action Fractions:

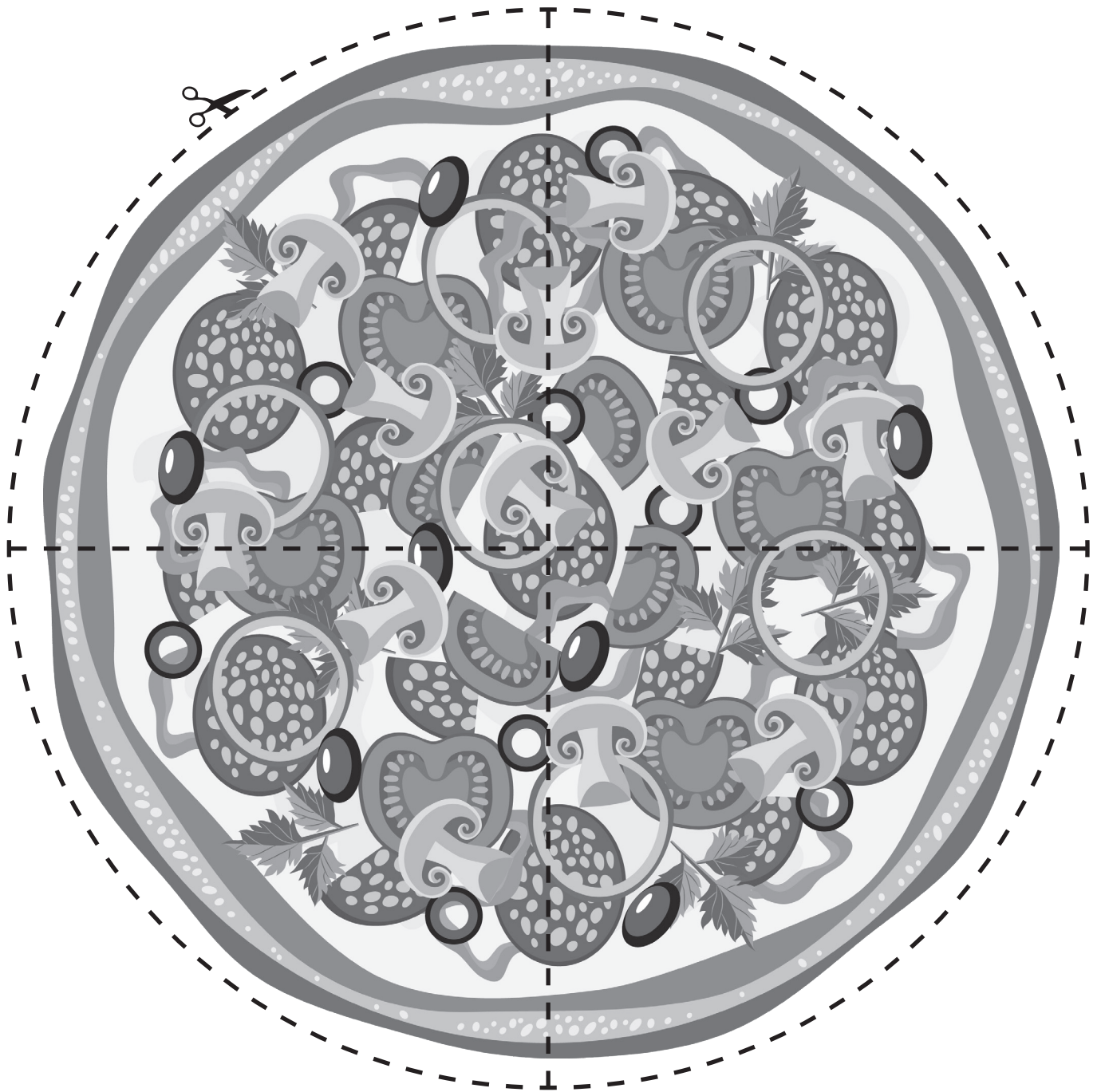
1. Color the game pieces on **LMs 8.1D–F Project: Action Fractions** and cut them out. Cut out the fraction cards on this page. The side of the fraction cards with the words is the question side; the side with the pictures is the answer side.
2. Invite a friend or family member to play. Choose a fraction card and read the fraction. Make the fraction with the game pieces that are shown on the card. Use the colored sides of the game pieces to show the top number in the fraction. Turn the fraction card over to check your answers. Keep score.
3. When all the cards have been used, the player who made the most correct fractions may begin the next game.

Fraction Cards



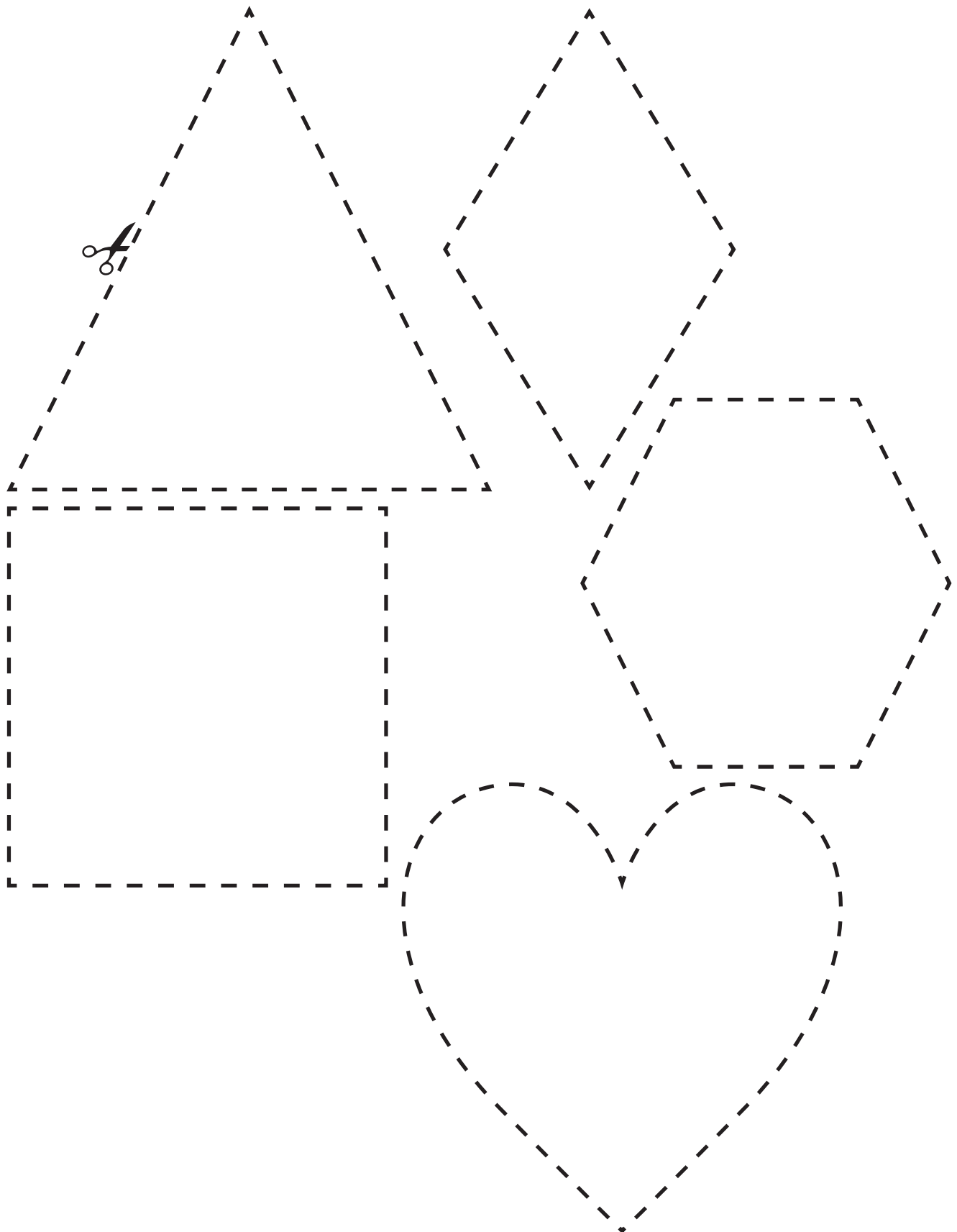


LM 8.1H Paper Pizza



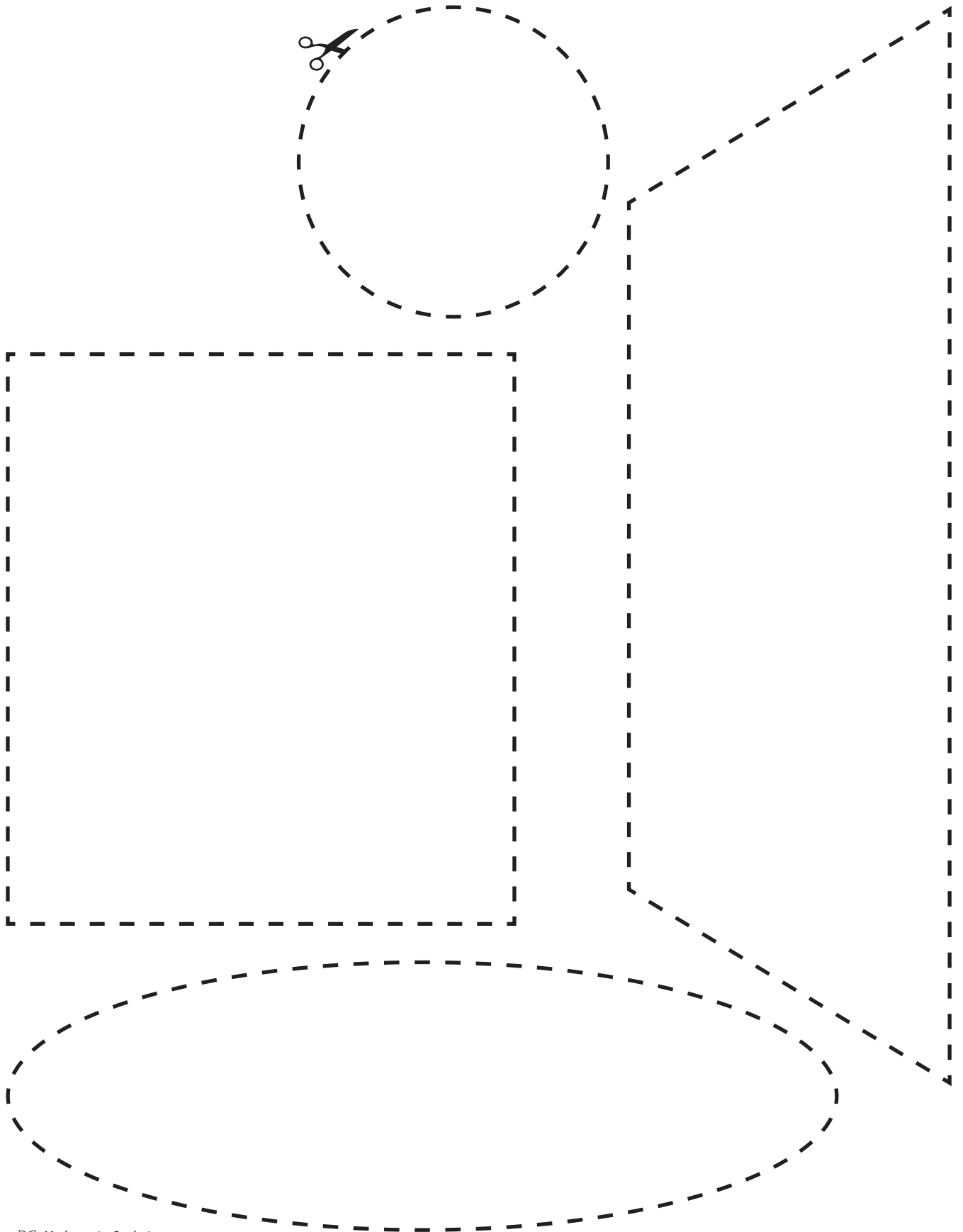


LM 8.2A Shapes for Fractions



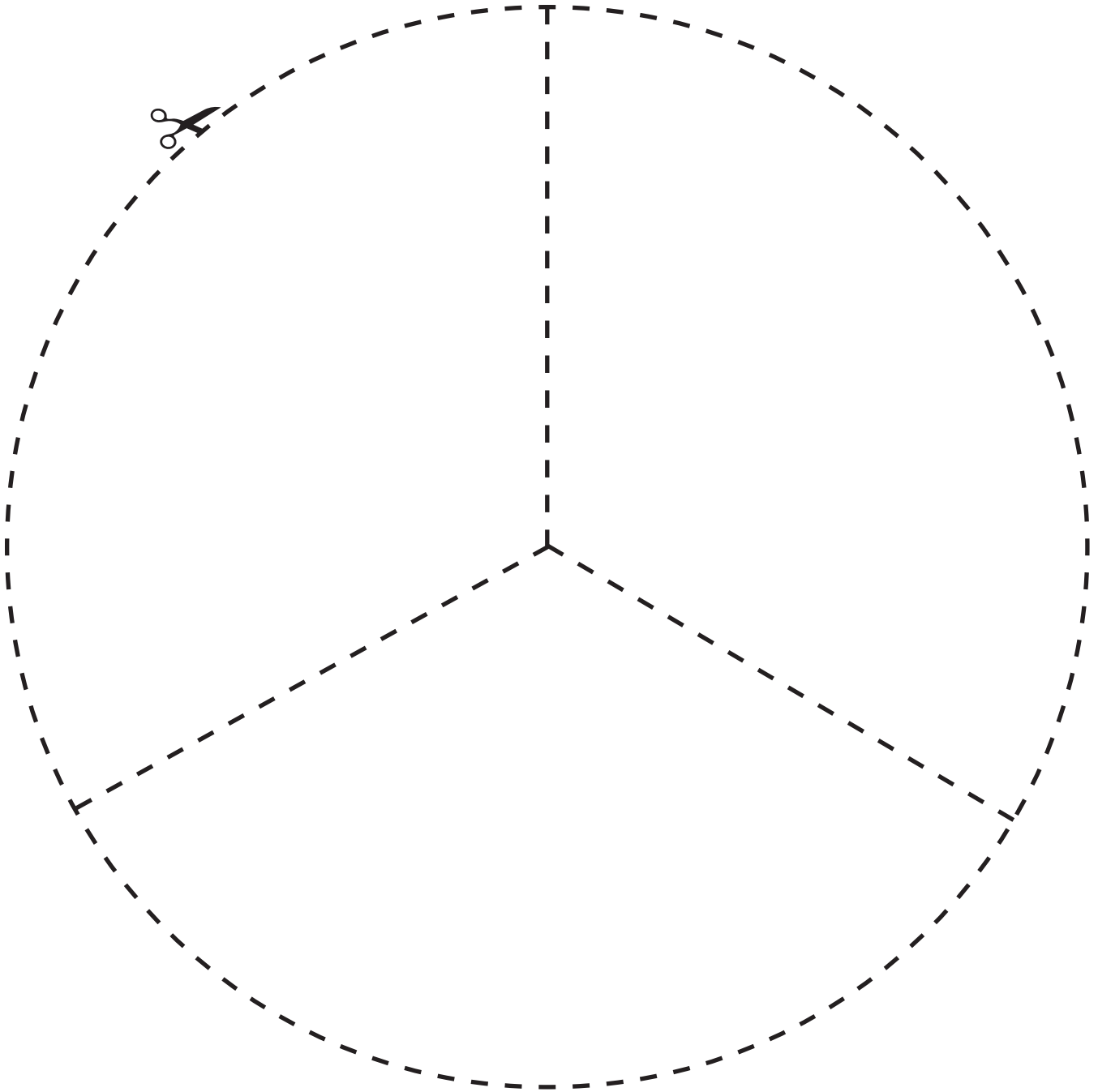


LM 8.2B Shapes for Fractions





LM 8.3A Thirds





LM 8.4A Fraction Strips

one-half

one-half

one-third one-third one-third

one-fourth one-fourth one-fourth one-fourth

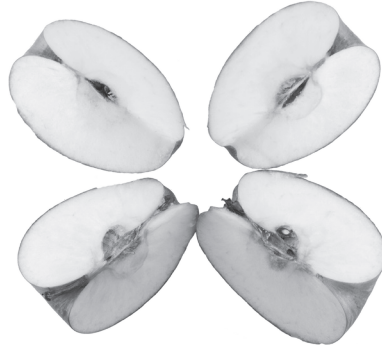
one whole



Name _____

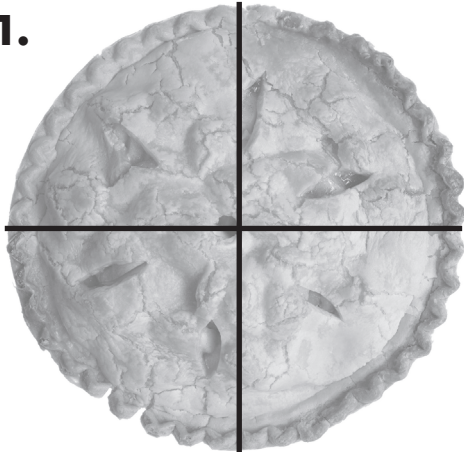
LM 8.4B Parts of a Whole

This apple is divided into four parts. Each piece is one-fourth of the whole apple.



Color the part that the fraction shows.

1.



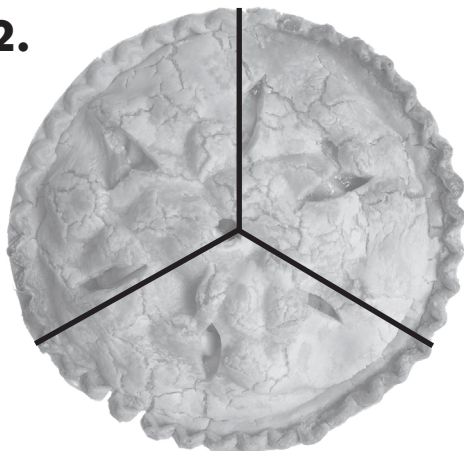
one-fourth

3.



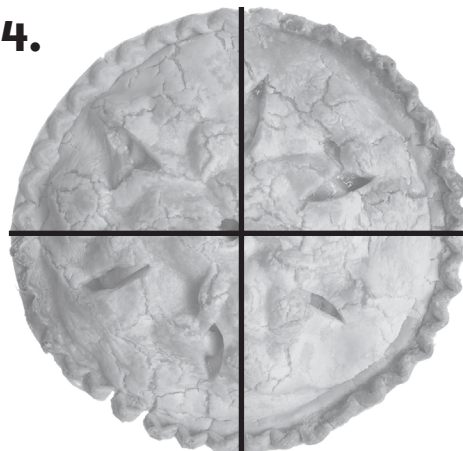
one-half

2.



two-thirds

4.



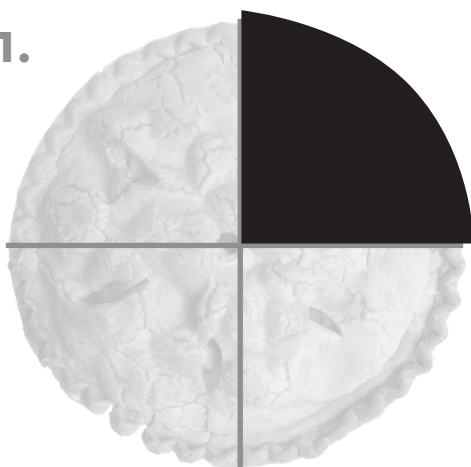
three-fourths

**LM 8.4B** Parts of a Whole

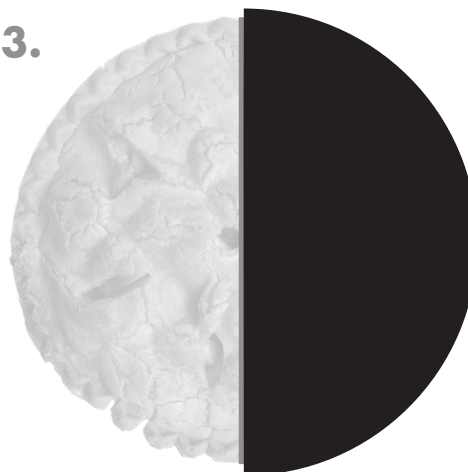
This apple is divided into four parts. Each piece is one-fourth of the whole apple.



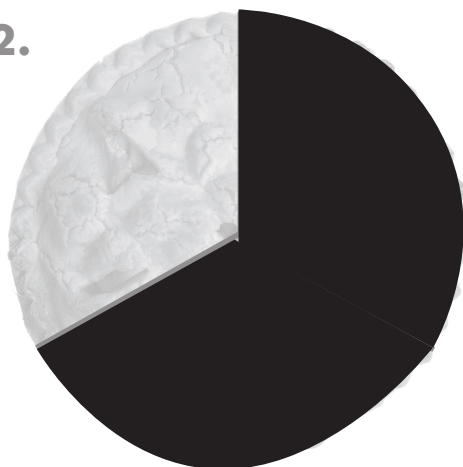
Color the part that the fraction shows.

1.

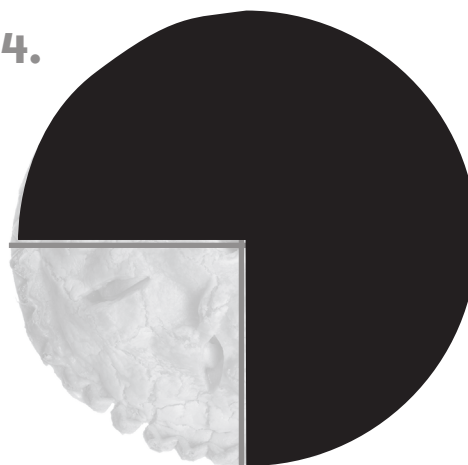
one-fourth

3.

one-half

Coloring will vary.**2.**

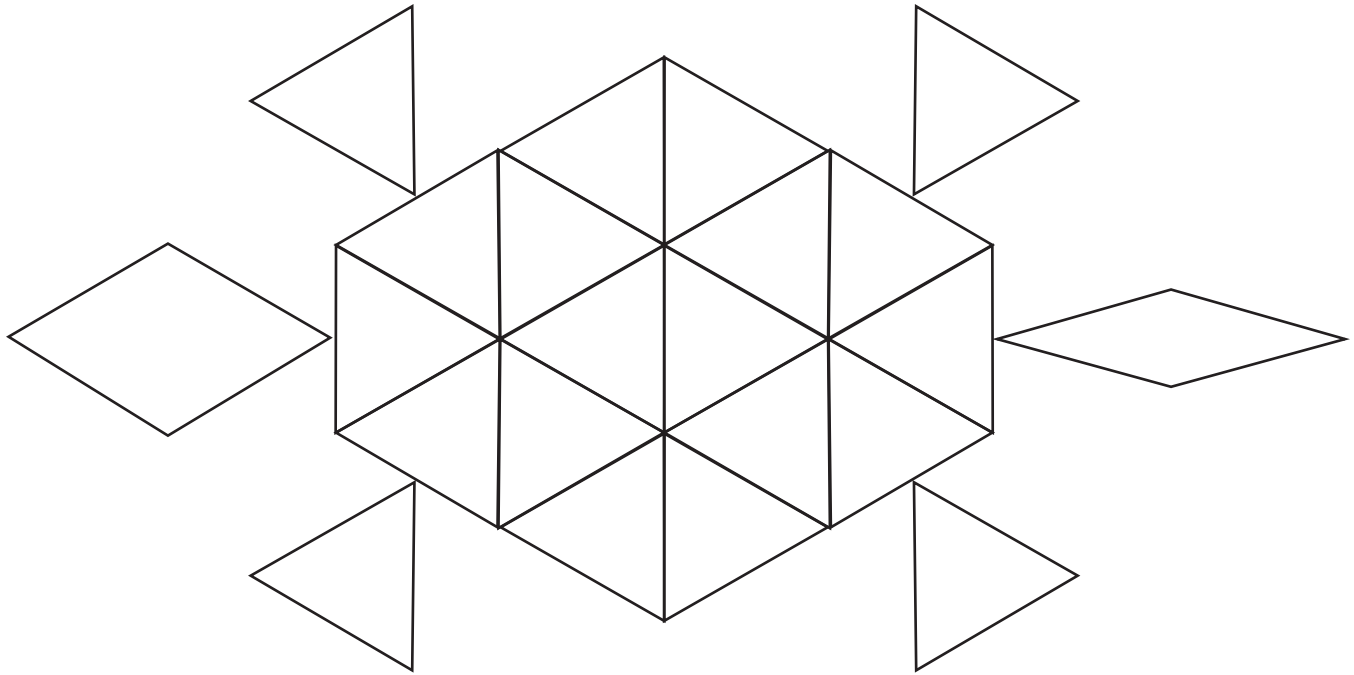
two-thirds

4.

three-fourths

Name _____

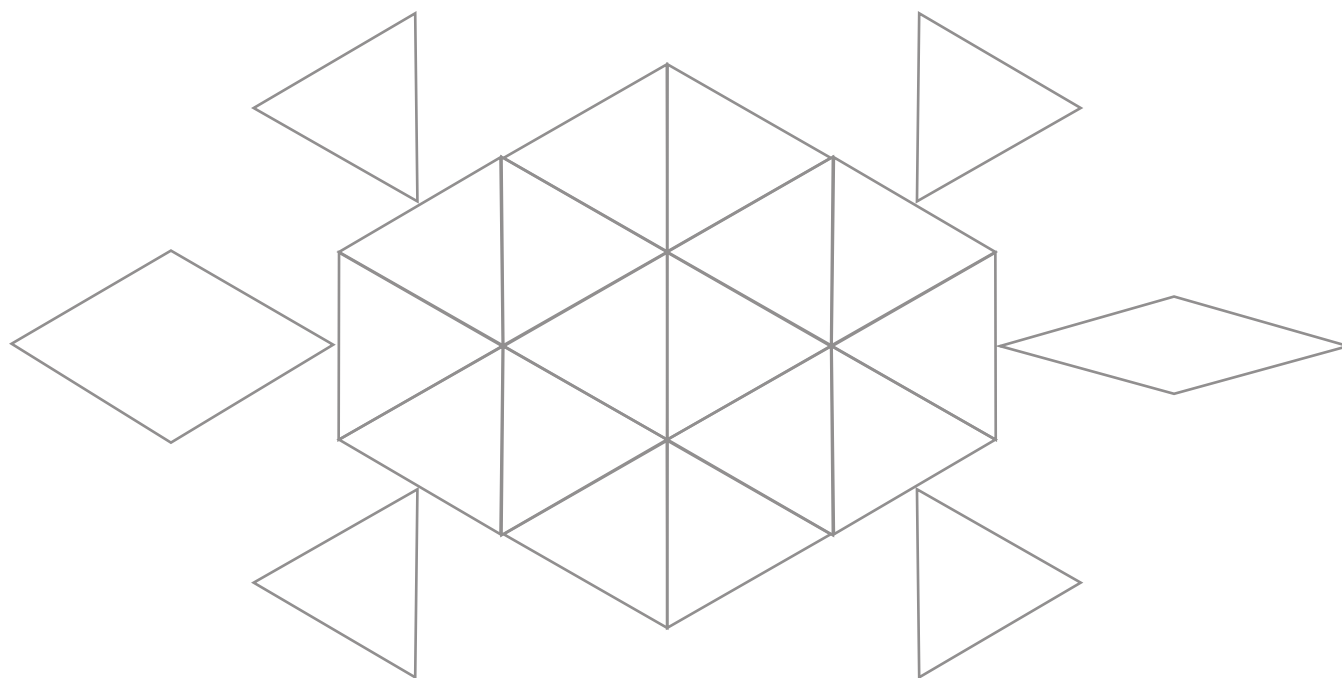
LM 8.6A Pattern Block Turtle



Cover the turtle with pattern blocks. Answer the questions.

1. How many triangles did you use? _____
2. How many wide rhombuses did you use? _____
3. How many narrow rhombuses did you use? _____
4. Take $\frac{1}{2}$ of the triangles off the turtle. How many are left? _____
5. Take all the triangles off the turtle. Make sets of 4 triangles.

How many sets did you make? _____

**LM 8.6A Pattern Block Turtle**

Cover the turtle with pattern blocks. Answer the questions.

1. How many triangles did you use? 20
2. How many wide rhombuses did you use? 1
3. How many narrow rhombuses did you use? 1
4. Take $\frac{1}{2}$ of the triangles off the turtle. How many are left? 10
5. Take all the triangles off the turtle. Make sets of 4 triangles.

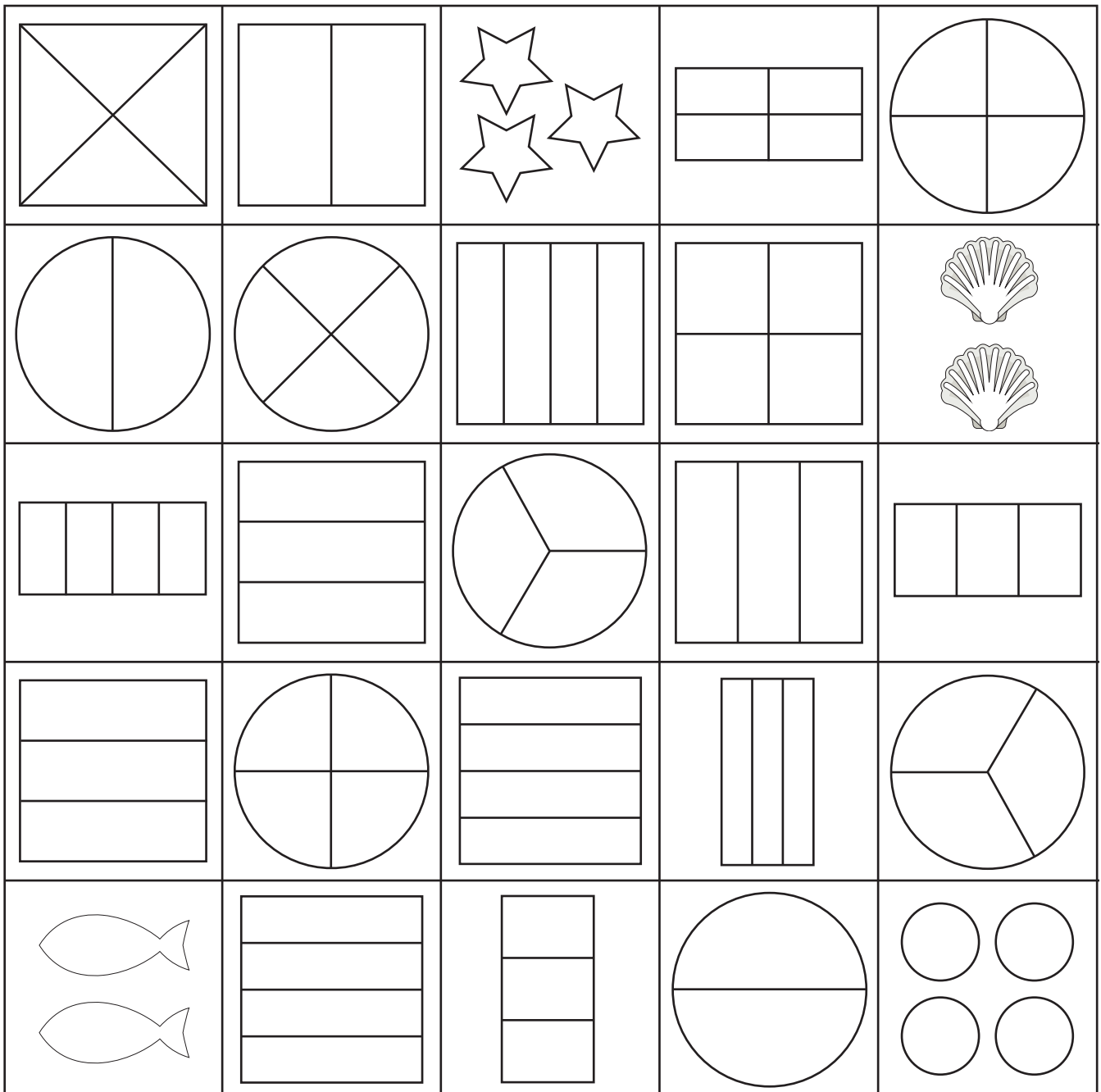
How many sets did you make? 5



Name _____

LM 8.7A Game: Color a Fraction

Turn over a game card. Read the fraction. Find a shape below that is divided into the number of equal parts shown on the bottom of the fraction on the game card. Color the fraction so that it matches the card. When you have correctly colored five fractions in a row, either up and down or side to side, the game is over.





LM 8.7B Game: Color a Fraction

Game Cards



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

Name _____

LM 8.8A Fractional Parts

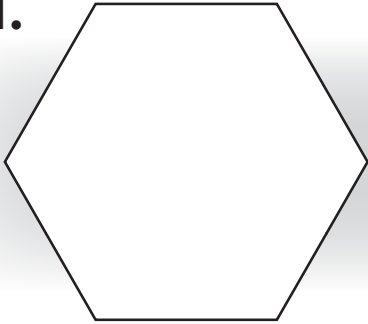
Write the number of parts needed to make the whole. The first one is done for you.

Whole

Parts to Use

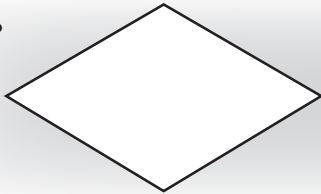
Number of Parts

1.

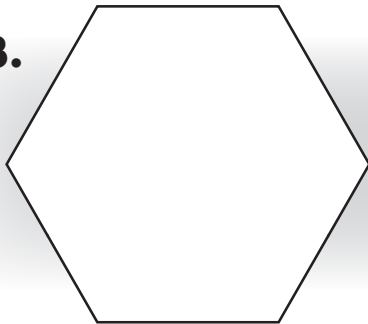


3

2.



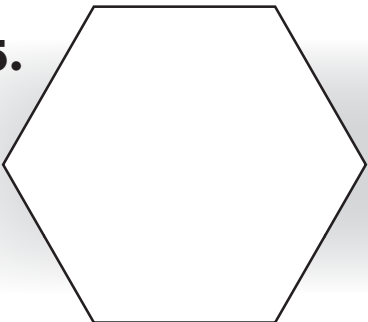
3.



4.

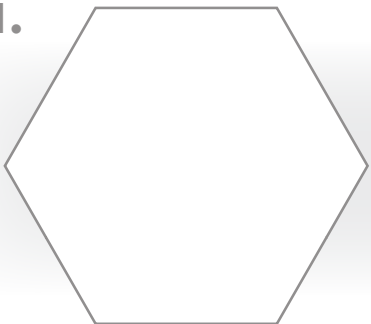
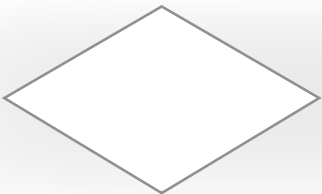
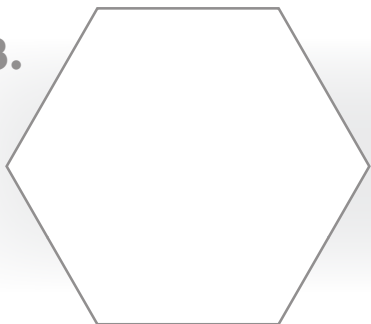
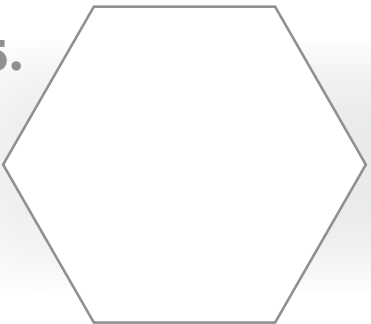


5.



LM 8.8A Fractional Parts

Write the number of parts needed to make the whole. The first one is done for you.

Whole	Parts to Use	Number of Parts
1. 		<u>3</u>
2. 		<u>2</u>
3. 		<u>2</u>
4. 		<u>3</u>
5. 		<u>6</u>

Name _____

LM 8.8B Fractional Parts Word Problems

Fill in the blanks.

1. How many sea gulls are on the beach? _____

If 3 sea gulls fly away, _____ -fourth
of them would be left on the beach.



2. Erin found 3 starfish. How many of them
have only 5 arms? _____ -thirds

3. Amaya built a sand castle with 4 towers.

She put flags on 2 towers. How many
do not have flags? _____ -fourths

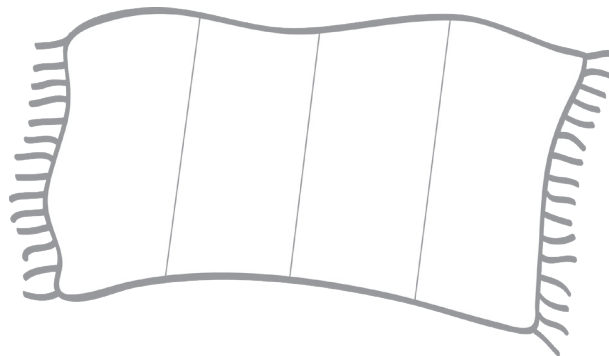


4. Eric divided his shells evenly with his 2 friends.

Each one had

one- _____
(half, third, fourth)
of the shells.

5. Color three-fourths of Felix's beach towel.





LM 8.8B Fractional Parts Word Problems

Fill in the blanks.

1. How many sea gulls are on the beach? 4

If 3 sea gulls fly away, one -fourth of them would be left on the beach.



2. Erin found 3 starfish. How many of them have only 5 arms? two -thirds

3. Amaya built a sand castle with 4 towers.

She put flags on 2 towers. How many do not have flags? two -fourths

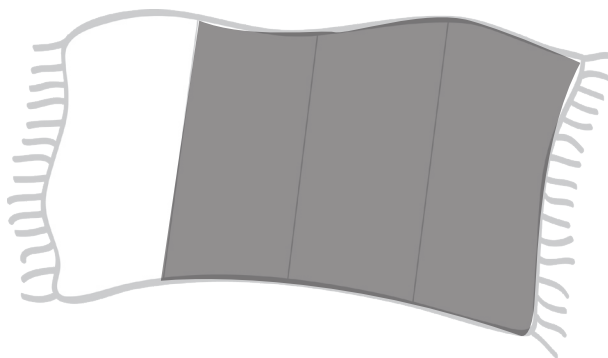


4. Eric divided his shells evenly with his 2 friends.

Each one had

one- third
(half, third, fourth)
of the shells.

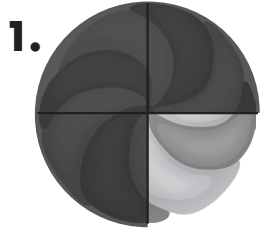
5. Color three-fourths of Felix's beach towel.



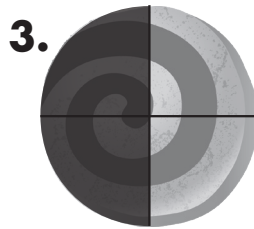
Name _____

LM 8.9A Writing Fractions

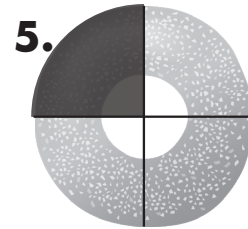
Write the fraction that shows how much of the cookie is shaded.



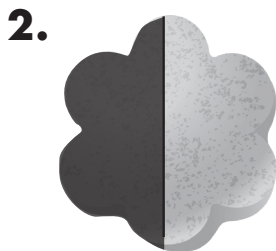
$\frac{3}{4}$
number shaded
number of pieces



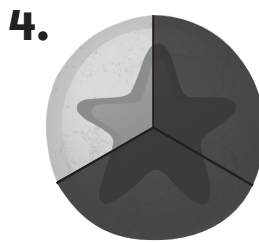
$\frac{\square}{\square}$ or $\frac{\square}{\square}$



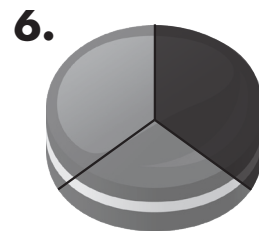
$\frac{\square}{\square}$



$\frac{\square}{\square}$



$\frac{\square}{\square}$



$\frac{\square}{\square}$

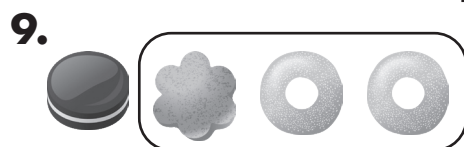
Write the fraction that shows how many cookies are circled.



$\frac{2}{4}$
number circled
number of cookies



$\frac{\square}{\square}$

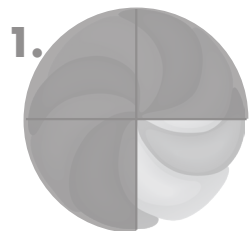


$\frac{\square}{\square}$



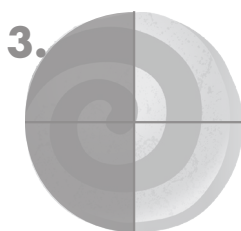
LM 8.9A Writing Fractions

Write the fraction that shows how much of the cookie is shaded.

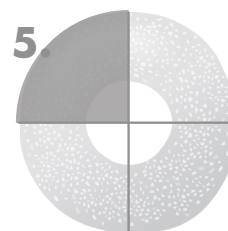


$$\frac{\boxed{3}}{\boxed{4}}$$

number shaded
number of pieces



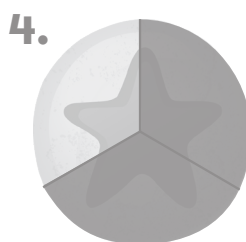
$$\frac{\boxed{2}}{\boxed{4}} \text{ or } \frac{\boxed{1}}{\boxed{2}}$$



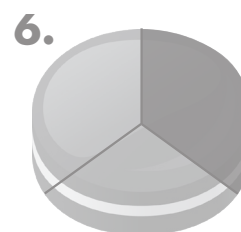
$$\frac{\boxed{1}}{\boxed{4}}$$



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



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



$$\frac{\boxed{1}}{\boxed{3}}$$

Write the fraction that shows how many cookies are circled.



$$\frac{\boxed{2}}{\boxed{4}}$$

number circled
number of cookies



$$\frac{\boxed{1}}{\boxed{3}}$$



$$\frac{\boxed{3}}{\boxed{4}}$$

Name _____

LM 8.10A Problem Solving with Fractions

Read each word problem. Choose a picture to help solve the problem. Color the picture, cut it out, and glue it in place. Write the fractions.

1. Ken saw 3 otters on a bank. Then 1 otter jumped into the water. What fraction of the otters jumped into the water? What fraction of the otters are left?

$\frac{\square}{\square}$ jumped $\frac{\square}{\square}$ are left



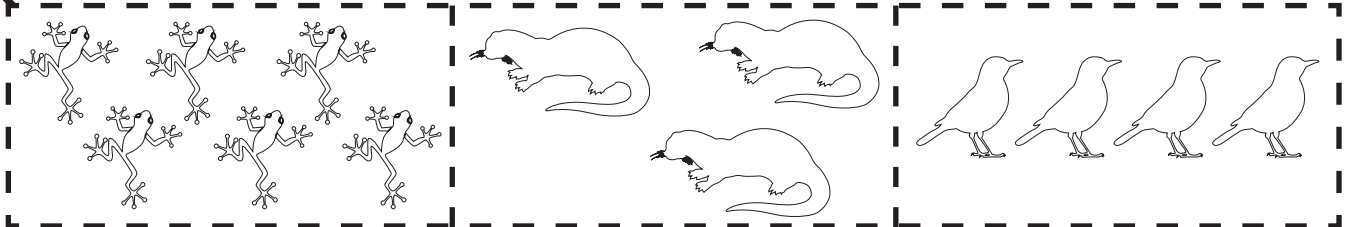
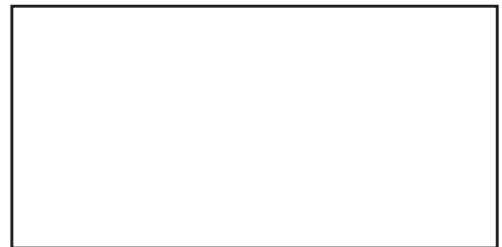
2. Nia gave bread to 4 birds. One bird ate the bread. Three birds did not eat it. What fraction of the birds ate the bread? What fraction did not?

$\frac{\square}{\square}$ ate bread $\frac{\square}{\square}$ did not eat



3. Three little frogs hopped. Three more frogs ate bugs. What fraction of the frogs hopped? What fraction of the frogs ate bugs?

$\frac{\square}{\square}$ hopped $\frac{\square}{\square}$ ate bugs



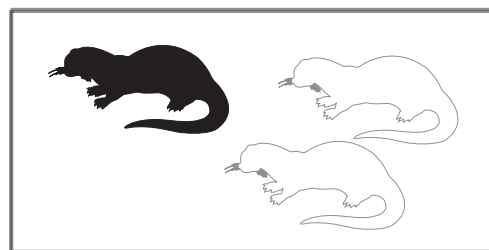


LM 8.10A Problem Solving with Fractions

Read each word problem. Choose a picture to help solve the problem. Color the picture, cut it out, and glue it in place. Write the fractions.

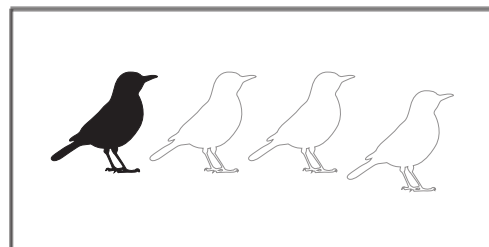
1. Ken saw 3 otters on a bank. Then 1 otter jumped into the water. What fraction of the otters jumped into the water? What fraction of the otters are left?

$$\frac{\boxed{1}}{\boxed{3}} \text{ jumped } \frac{\boxed{2}}{\boxed{3}} \text{ are left}$$



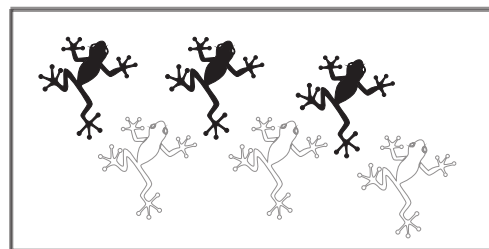
2. Nia gave bread to 4 birds. One bird ate the bread. Three birds did not eat it. What fraction of the birds ate the bread? What fraction did not?

$$\frac{\boxed{1}}{\boxed{4}} \text{ ate bread } \frac{\boxed{3}}{\boxed{4}} \text{ did not eat}$$



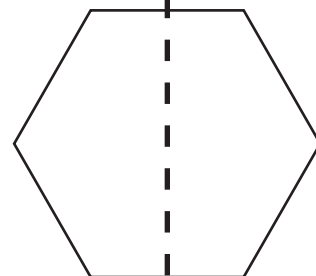
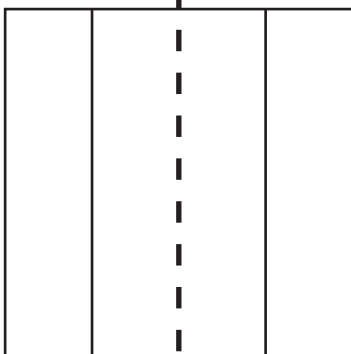
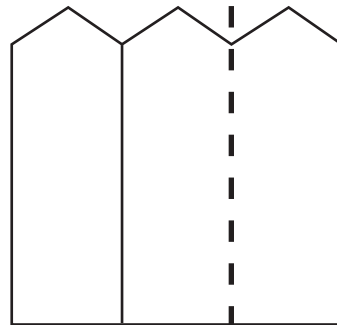
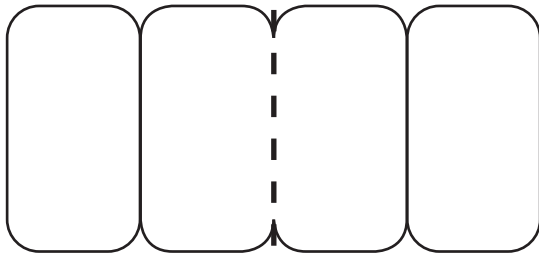
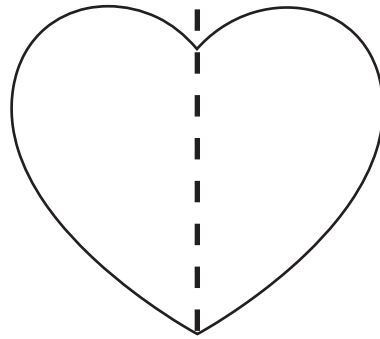
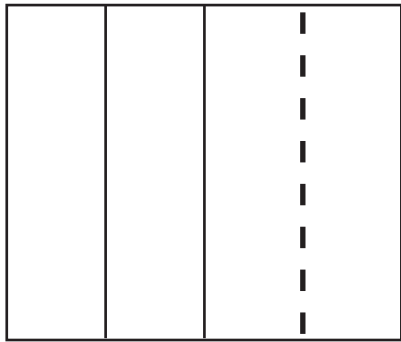
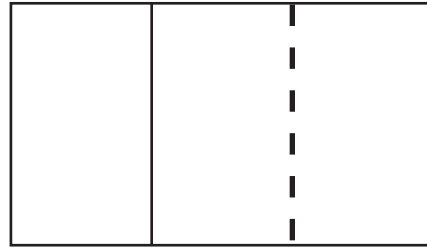
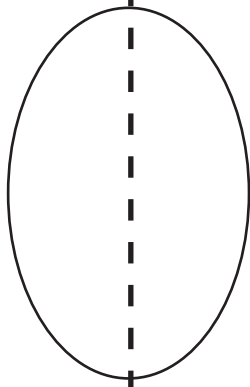
3. Three little frogs hopped. Three more frogs ate bugs. What fraction of the frogs hopped? What fraction of the frogs ate bugs?

$$\frac{\boxed{1}}{\boxed{2}} \text{ or } \frac{\boxed{3}}{\boxed{6}} \quad \frac{\boxed{1}}{\boxed{2}} \text{ or } \frac{\boxed{3}}{\boxed{6}}$$





LM 8.12A Missing Fractional Parts

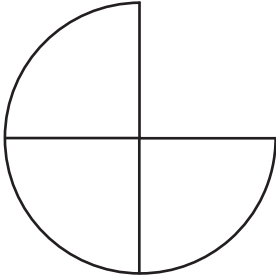


Name _____

LM 8.12B Finding Fractional Parts

Cut and glue the piece that completes the shape. Circle the fractional part you added.

1.



$\frac{1}{2}$ or $\frac{1}{4}$

3.



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

5.



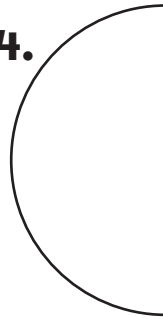
$\frac{1}{2}$ or $\frac{2}{3}$

2.



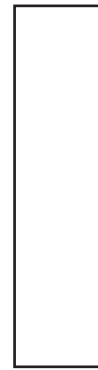
$\frac{1}{4}$ or $\frac{3}{4}$

4.

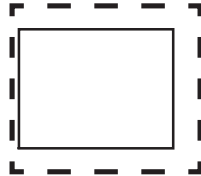
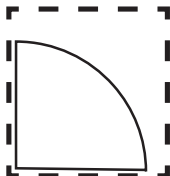
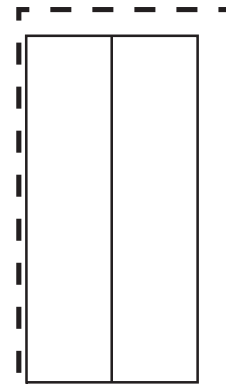
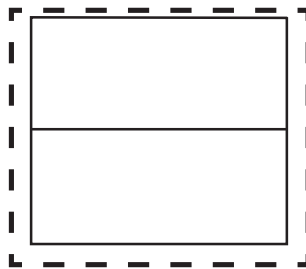
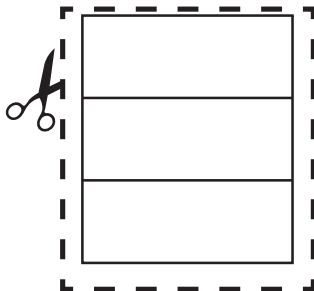


$\frac{1}{2}$ or $\frac{1}{3}$

6.



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

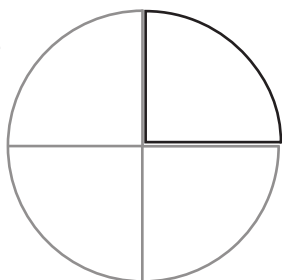




LM 8.12B Finding Fractional Parts

Cut and glue the piece that completes the shape. Circle the fractional part you added.

1.



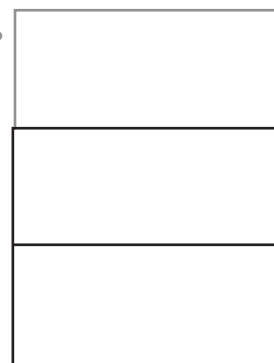
$$\frac{1}{2} \quad \text{or} \quad \textcircled{\frac{1}{4}}$$

3.



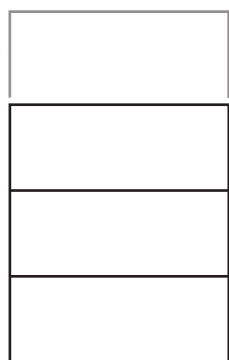
$$\textcircled{\frac{1}{2}} \quad \text{or} \quad \frac{1}{3}$$

5.



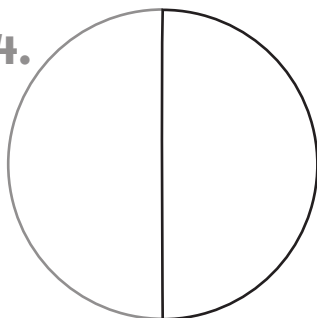
$$\frac{1}{2} \quad \text{or} \quad \textcircled{\frac{2}{3}}$$

2.



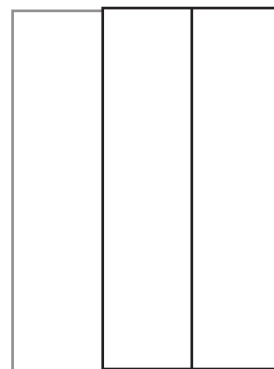
$$\frac{1}{4} \quad \text{or} \quad \textcircled{\frac{3}{4}}$$

4.



$$\textcircled{\frac{1}{2}} \quad \text{or} \quad \frac{1}{3}$$

6.

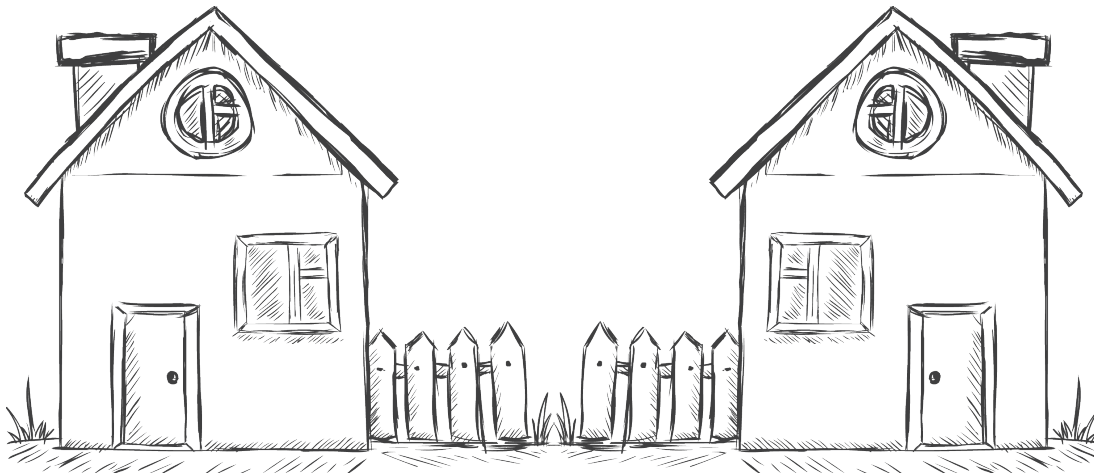
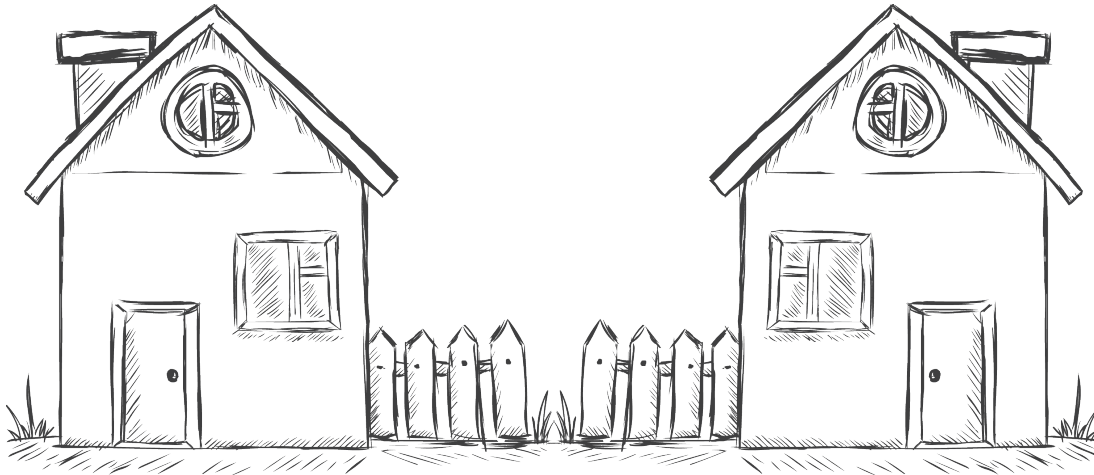


$$\frac{1}{2} \quad \text{or} \quad \textcircled{\frac{2}{3}}$$

Name _____

LM 8.13A Practice with Fractions

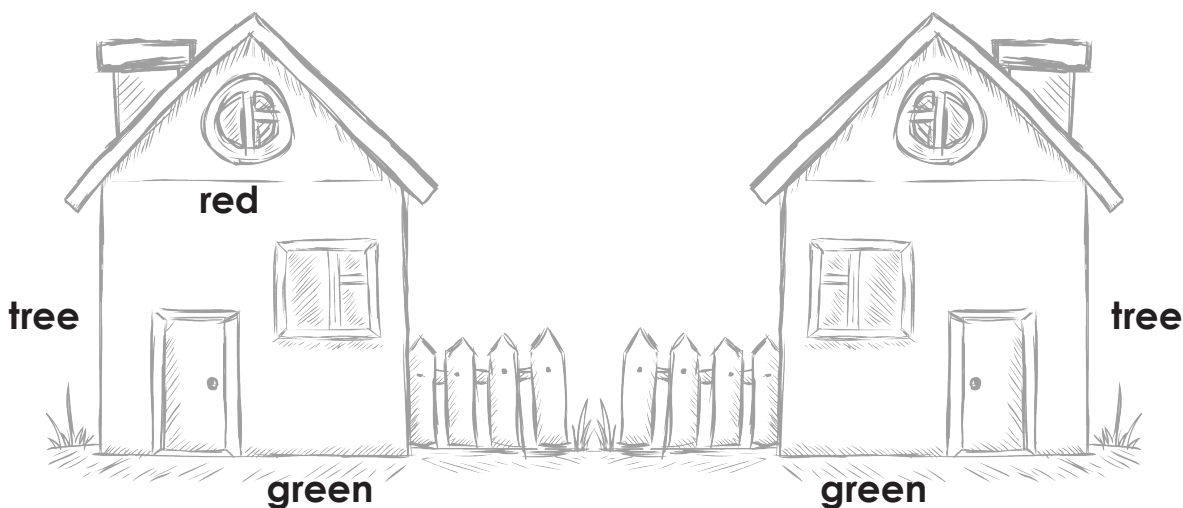
1. Color $\frac{1}{4}$ of the houses red.
2. Draw a tree next to $\frac{1}{2}$ of the houses.
3. Draw a dog in the yard of $\frac{1}{4}$ of the houses.
4. Draw smoke coming out of the chimney on $\frac{2}{4}$ of the houses.
5. Color a green lawn in front of $\frac{3}{4}$ of the houses.
6. Draw a car beside $\frac{1}{4}$ of the houses.



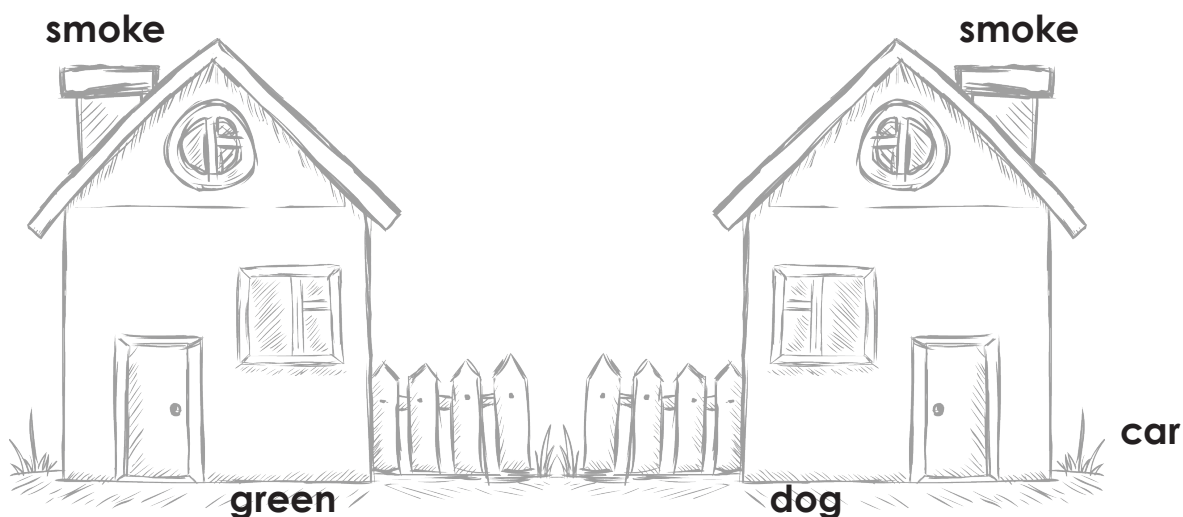


LM 8.13A Practice with Fractions

1. Color $\frac{1}{4}$ of the houses red.
2. Draw a tree next to $\frac{1}{2}$ of the houses.
3. Draw a dog in the yard of $\frac{1}{4}$ of the houses.
4. Draw smoke coming out of the chimney on $\frac{2}{4}$ of the houses.
5. Color a green lawn in front of $\frac{3}{4}$ of the houses.
6. Draw a car beside $\frac{1}{4}$ of the houses.

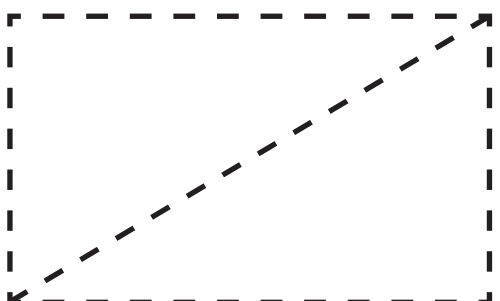
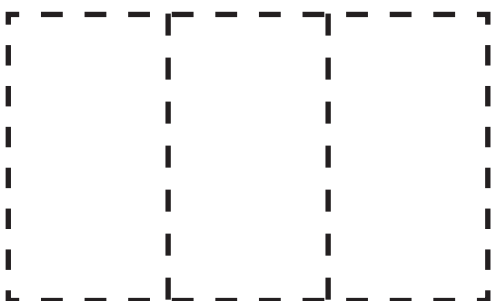
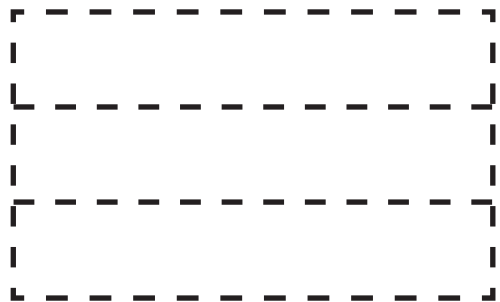
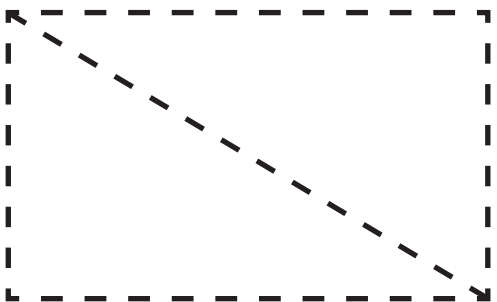
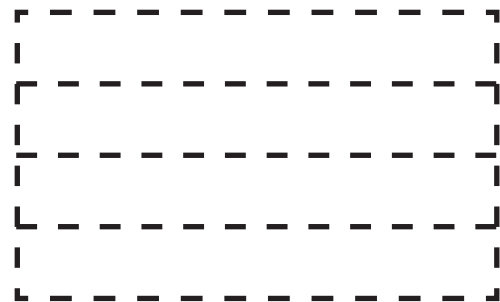
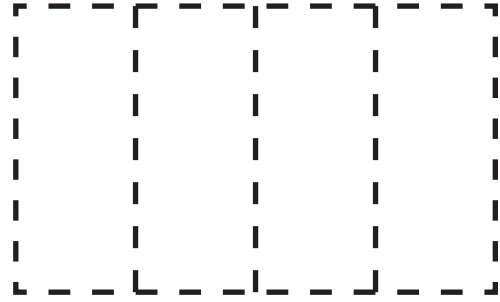
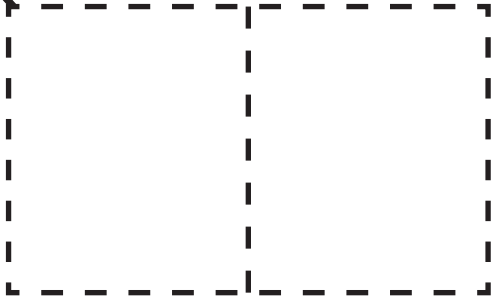


Drawings will vary but should match the fraction.





LM 8.14A Robot Parts

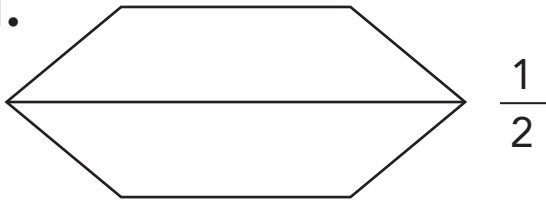


Name _____

LM 8.14B Chapter 8 Test

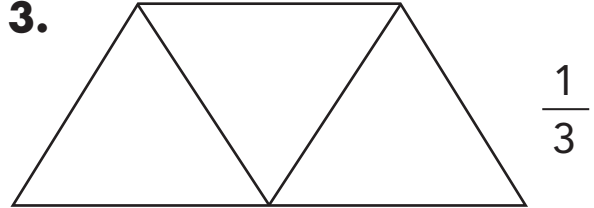
Color to show the fraction.

1.



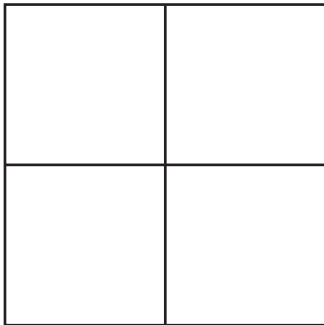
$$\frac{1}{2}$$

3.



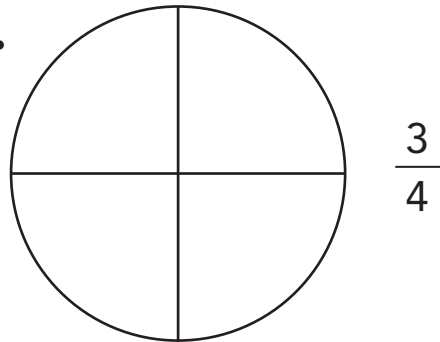
$$\frac{1}{3}$$

2.



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

4.



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

Match the fraction to the picture.

5.

$$\frac{3}{4} \bullet$$

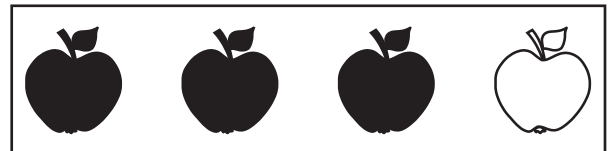
•



6.

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

•



7.

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

•





LM 8.14B Chapter 8 Test

Color to show the fraction.

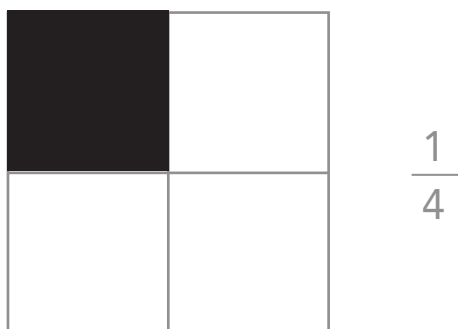
1.



3.



2.



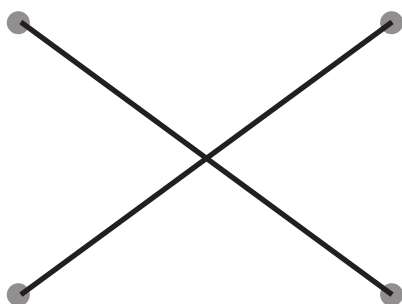
4.



Match the fraction to the picture.

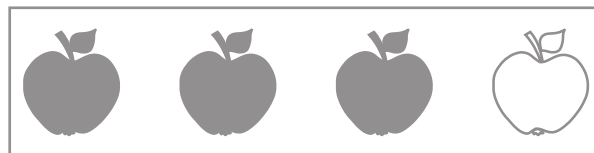
5.

$\frac{3}{4}$



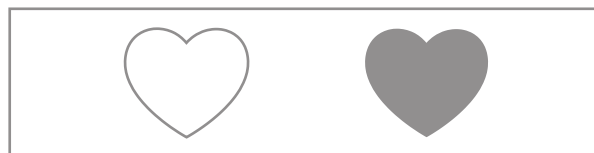
6.

$\frac{2}{3}$



7.

$\frac{1}{2}$



Name _____

LM 8.14C Chapter 8 Test

Circle the coins to make the fraction shown. Write the amount of money circled.



$$\frac{1}{4} = \underline{\hspace{2cm}} \text{ ¢}$$



$$\frac{1}{2} = \underline{\hspace{2cm}} \text{ ¢}$$



$$\frac{2}{3} = \underline{\hspace{2cm}} \text{ ¢}$$



$$\frac{1}{3} = \underline{\hspace{2cm}} \text{ ¢}$$

Word Bank

third	fraction	fourth
half	equal parts	

Use the Word Bank to fill in the blanks.

12. I am one of three equal parts. I am a _____.

13. Sections of a shape that are the same size are _____.

14. I am one of four equal parts. I am a _____.

15. I am one of two equal parts. I am a _____.

16. I am part of a whole. I am a _____.



LM 8.14C Chapter 8 Test

Circle the coins to make the fraction shown. Write the amount of money circled.



$$\frac{1}{4} = \underline{1} \text{ ¢}$$



$$\frac{1}{2} = \underline{2} \text{ ¢}$$



$$\frac{2}{3} = \underline{10} \text{ ¢}$$



$$\frac{1}{3} = \underline{10} \text{ ¢}$$

Word Bank

third	fraction	fourth
half	equal parts	

Use the Word Bank to fill in the blanks.

12. I am one of three equal parts. I am a third.

13. Sections of a shape that are the same size are equal
parts.

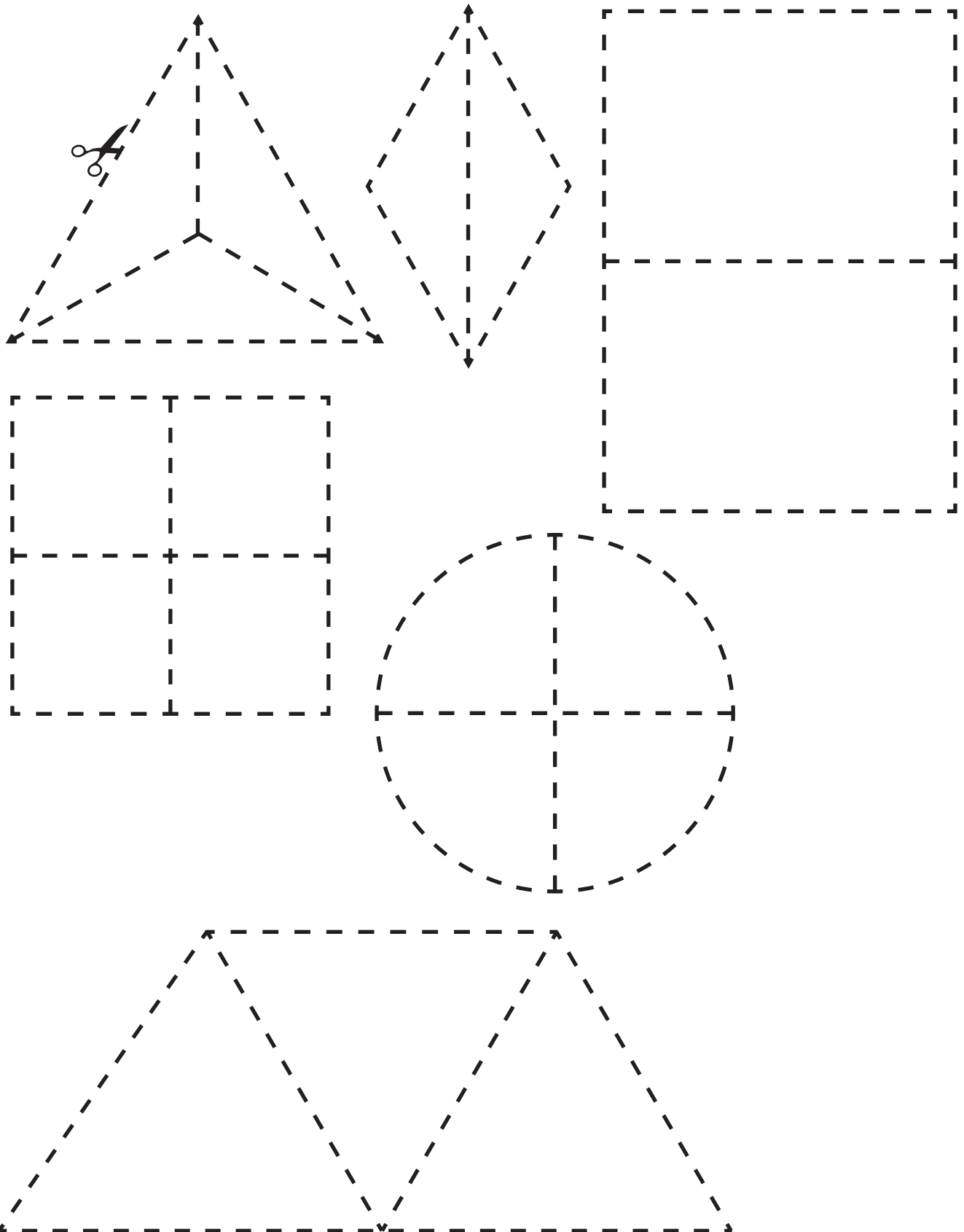
14. I am one of four equal parts. I am a fourth.

15. I am one of two equal parts. I am a half.

16. I am part of a whole. I am a fraction.



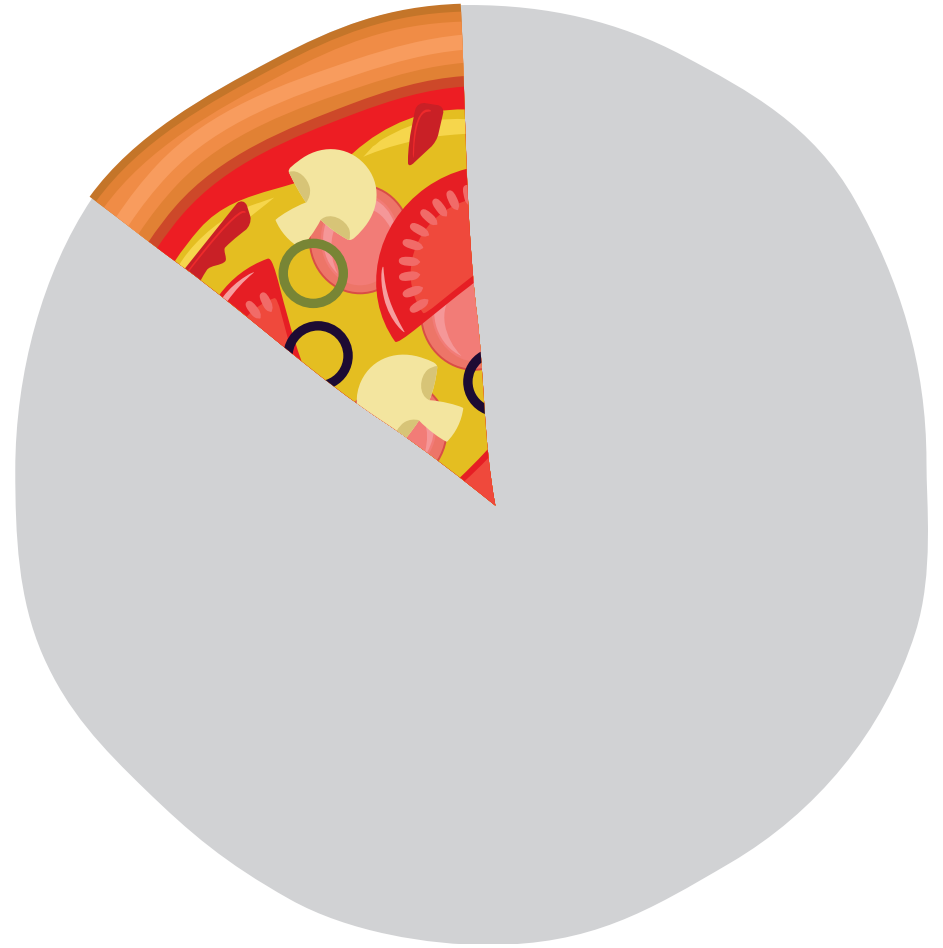
LM 8.14D Fractional Pieces





DM 8.1A

Whole or Part



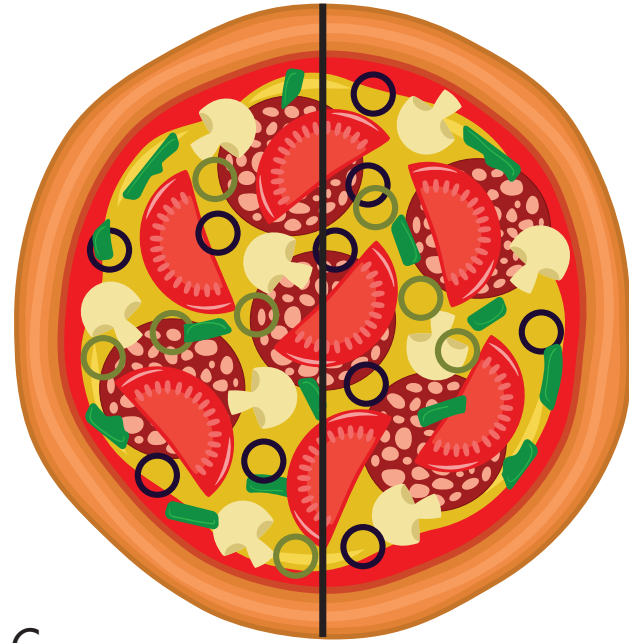


DM 8.1B

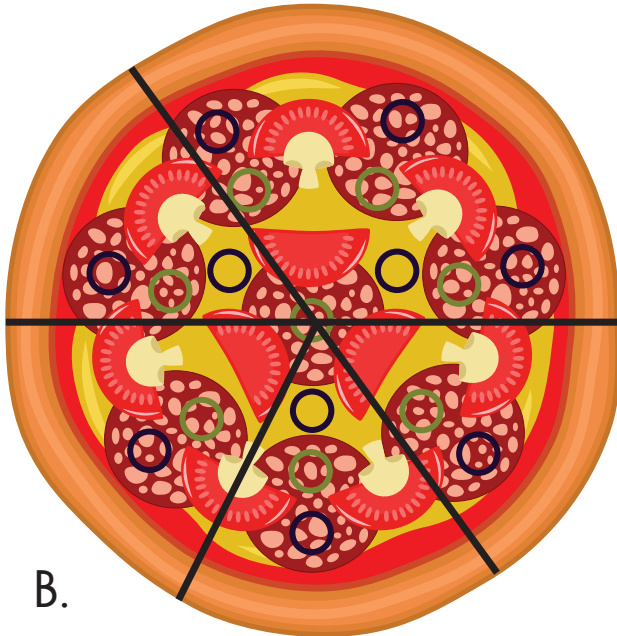
Equal Parts



A.



C.



B.

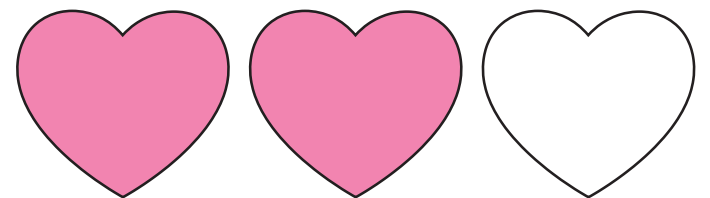
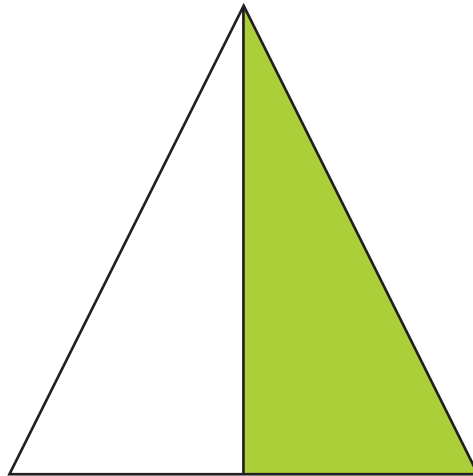
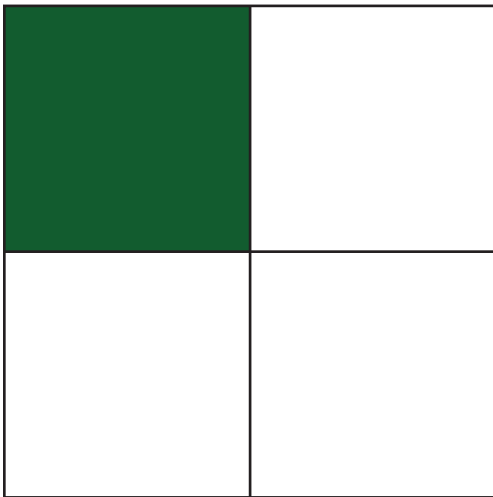
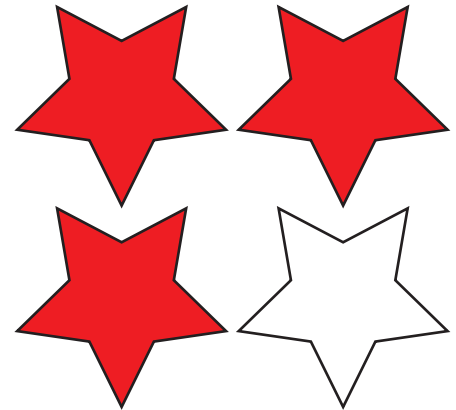
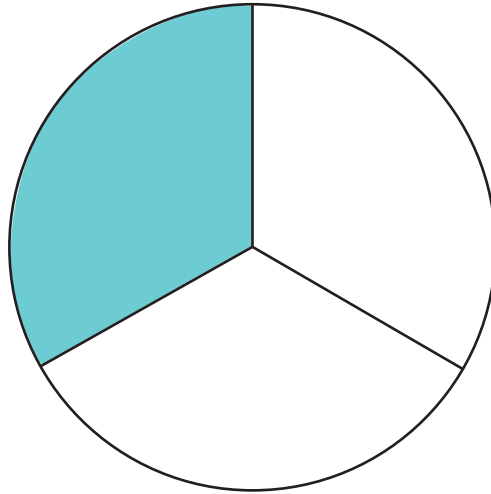
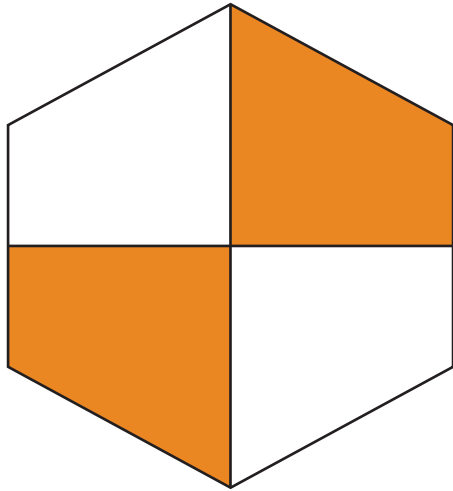


D.



DM 8.9A

Fractions





Number
Correct:

Add and Subtract to 12

MM 8.3A

$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$



© Mathematics Grade 1 • Fractions

Number
Correct:

Add and Subtract to 12

MM 8.3A

$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

Number
Correct:

Add and Subtract to 12

MM 8.3A

$$\begin{array}{r} 6 \\ + 6 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 8 \\ + 0 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 12 \\ - 6 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 5 \\ - 4 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 11 \\ - 3 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 2 \\ + 3 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$$



Number
Correct:

Add and Subtract to 12

MM 8.3B

$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$$



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Number
Correct:

Add and Subtract to 12

MM 8.3B

$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$$



Number
Correct:

Add and Subtract to 12

MM 8.3B

$$\begin{array}{r} 10 \\ - 3 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 11 \\ - 7 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 9 \\ + 3 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 3 \\ + 1 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 6 \\ - 1 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 3 \\ + 8 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 5 \\ + 7 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 12 \\ - 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 7 \\ + 4 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 7 \\ - 2 \\ \hline 5 \end{array}$$



Number
Correct:

Add and Subtract to 12

MM 8.6A

$$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 8 \\ \hline \end{array}$$



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Number
Correct:

Add and Subtract to 12

MM 8.6A

$$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 8 \\ \hline \end{array}$$



Number
Correct:

Add and Subtract to 12

MM 8.6A

$$\begin{array}{r} 4 \\ - 3 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 12 \\ - 8 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 5 \\ + 6 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 7 \\ + 5 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 4 \\ + 8 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 7 \\ + 1 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 11 \\ - 4 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 1 \\ + 8 \\ \hline 9 \end{array}$$



Number
Correct:

Add and Subtract to 12

MM 8.6B

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$



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Number
Correct:

Add and Subtract to 12

MM 8.6B

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$



Number
Correct:

Add and Subtract to 12

MM 8.6B

$$\begin{array}{r} 2 \\ + 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 10 \\ - 5 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 3 \\ + 9 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 6 \\ + 5 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 6 \\ + 6 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 10 \\ - 8 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 0 \\ + 6 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 12 \\ - 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline 7 \end{array}$$



Number
Correct:

Add and Subtract to 12

MM 8.10A

$$\begin{array}{r} 8 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 3 \\ \hline \end{array}$$



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Number
Correct:

Add and Subtract to 12

MM 8.10A

$$\begin{array}{r} 8 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 3 \\ \hline \end{array}$$

Number
Correct:

Add and Subtract to 12

MM 8.10A

$$\begin{array}{r} 8 \\ + 4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 9 \\ - 8 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 11 \\ - 9 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 2 \\ + 9 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 5 \\ - 1 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 7 \\ - 4 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 1 \\ + 3 \\ \hline 4 \end{array}$$



Number
Correct:

Add and Subtract to 12

MM 8.10B

$$\begin{array}{r} 1 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$



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Number
Correct:

Add and Subtract to 12

MM 8.10B

$$\begin{array}{r} 1 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

Number
Correct:

Add and Subtract to 12

MM 8.10B

$$\begin{array}{r} 1 \\ + 5 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 6 \\ - 3 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 9 \\ + 2 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 7 \\ - 7 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 4 \\ + 7 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 12 \\ - 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 5 \\ - 3 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 6 \\ - 4 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 3 \\ - 2 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline 10 \end{array}$$



Number
Correct:

Add and Subtract to 12

MM 8.13A

$$\begin{array}{r} 6 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 9 \\ \hline \end{array}$$



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Number
Correct:

Add and Subtract to 12

MM 8.13A

$$\begin{array}{r} 6 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 9 \\ \hline \end{array}$$

Number
Correct:

Add and Subtract to 12

MM 8.13A

$$\begin{array}{r} 6 \\ - 5 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 2 \\ + 4 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 6 \\ - 6 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 8 \\ + 3 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 12 \\ - 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 12 \\ - 5 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 10 \\ - 7 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 4 \\ + 1 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 11 \\ - 8 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 9 \\ - 9 \\ \hline 0 \end{array}$$