

Using the Metric System

Fill in the circle to complete the sentence. Then answer questions 3 and 4.

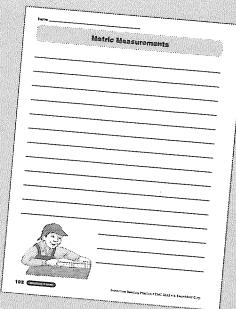
1. You can use _____ to measure the thickness of a dime.
Ⓐ millimeters
Ⓑ meters
Ⓒ kilometers
2. There are _____ meters in one kilometer.
Ⓐ 10
Ⓑ 100
Ⓒ 1,000
3. How long is the crayon?

4. Could a person run a distance of 75 meters? Give your reasons.

Write About the Topic

Use the Writing Form to write about what you read.

Write to tell about the metric system. Explain how the measurement units work.



Fractions

Level 1 ■

Words to Know list, Reading Selection, and Reading Comprehension questions

Sharing a Pie

Name _____

Fill in the circle to complete the sentence.

Sharing a Pie

There are many ways to use math in everyday life. One way is to use fractions. Fractions are equal parts of a whole. For example, let's use fractions to talk about a pie. If you have one pie, you have one whole.

A whole pie looks like this:

It is nice to share pie with others. Let's cut the pie into two equal pieces. Each piece of pie is half of the whole pie. The pieces are each one-half, or $\frac{1}{2}$. Those are big pieces of pie!

Let's cut it again. Now there are four equal pieces, and each piece is one-fourth, or $\frac{1}{4}$, of the original. The pieces are still pretty big.

Let's cut the pie two more times. Into eight equal pieces. Each piece is one-eighth, or $\frac{1}{8}$, of the original. Now you can share the pie with your friends!

Words to Know

Sharing a Pie

- math
- fractions
- equal
- whole
- pieces
- half
- fourth
- original
- eighth

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Fractions II

Level 2 ■ ■

Words to Know list, Reading Selection, and Reading Comprehension questions

Using Fractions at Home

Name _____

Fill in the circle to complete the sentence.

Using Fractions at Home

People use math every day. You can use fractions when you do chores around the house. Fractions can help you when you water your plants. You can use fractions to help you remember how much water you need.

You might use a watering can to water your family's plants. How much water should you put in the can?

If you fill the watering can all of the way, you have one whole watering can of water. If you only fill part of the watering can, you have a fraction of the whole watering can of water.

Pay attention to how much water you use. You might use $\frac{1}{2}$ of a watering can of water. You might use $\frac{1}{4}$ of a watering can of water. Remember the fraction. The next time you water the plants, fill the watering can with just enough water. This is one-way math can be useful around the house.

Words to Know

Using Fractions at Home

- math
- fractions
- water
- plants
- watering can
- whole
- part

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Fractions III

Level 3 ■ ■ ■

Words to Know list, Reading Selection, and Reading Comprehension questions

Parts of a Whole

Name _____

Fill in the circle to complete the sentence.

Parts of a Whole

You might not realize how often you use math in your everyday life. Many people use fractions throughout the day. Fractions are equal parts of a whole. One way you might use fractions is to tell someone how much of a series of books you have read.

Let's say you are reading a series of books about dogs. There are three books in the series. Your friend asks you how much of the series you have read.

Three books make up the whole series.

If you have read one book, you have read $\frac{1}{3}$ of the series.

If you have read two books, you have read $\frac{2}{3}$ of the series.

If you have read three books, you've read the whole series.

Now it's time to find more books to read!

Words to Know

Parts of a Whole

- realize
- math
- fractions
- throughout
- equal
- whole
- series
- books

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Fractions IV

Assemble the Unit

Reproduce and distribute one copy for each student:

- Visual Literacy page: Some Fractions, page 111
- Level 1, 2, or 3 Reading Selection and Reading Comprehension page and the corresponding Words to Know list
- Graphic Organizer of your choosing, provided on pages 180–186
- Writing Form: Fractions, page 112

Introduce the Topic

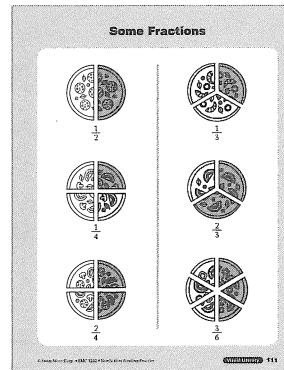
Use the pizzas to review fractions with students. Explain that fractions are parts of a whole. Read aloud the fraction that goes with each pizza and have students echo you.

Read and Respond

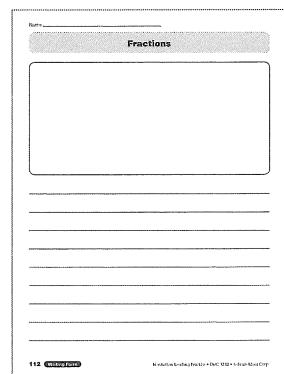
Form leveled groups and review the Words to Know lists with each group of students. Instruct each group to read their selection individually, in pairs, or as a group. Have students complete the Reading Comprehension page for their selection.

Write About the Topic

Read aloud the leveled writing prompt for each group. Tell students to use the Graphic Organizer to plan their writing. Direct students to use their Writing Form to respond to their prompt.

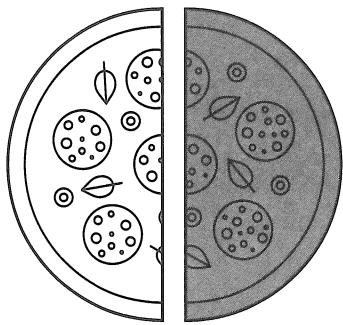


Visual Literacy

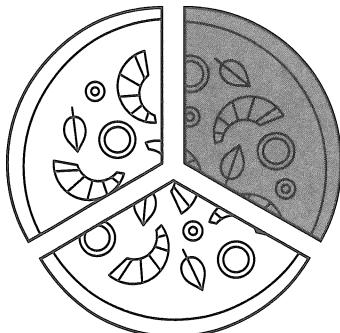


Writing Form

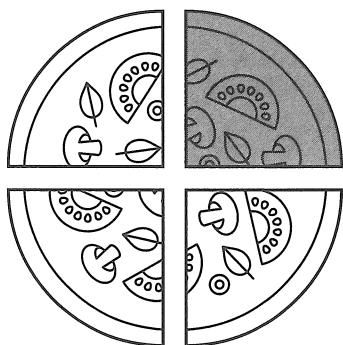
Some Fractions



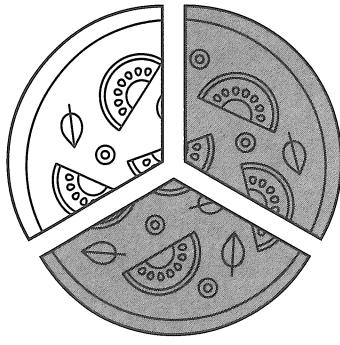
$$\frac{1}{2}$$



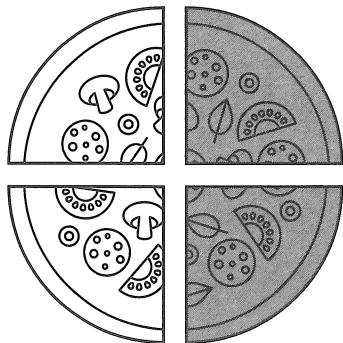
$$\frac{1}{3}$$



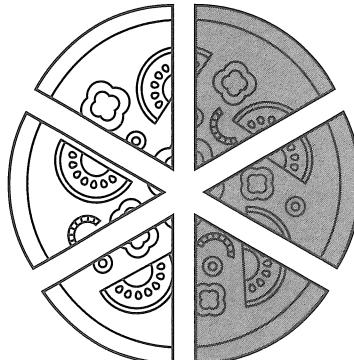
$$\frac{1}{4}$$



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



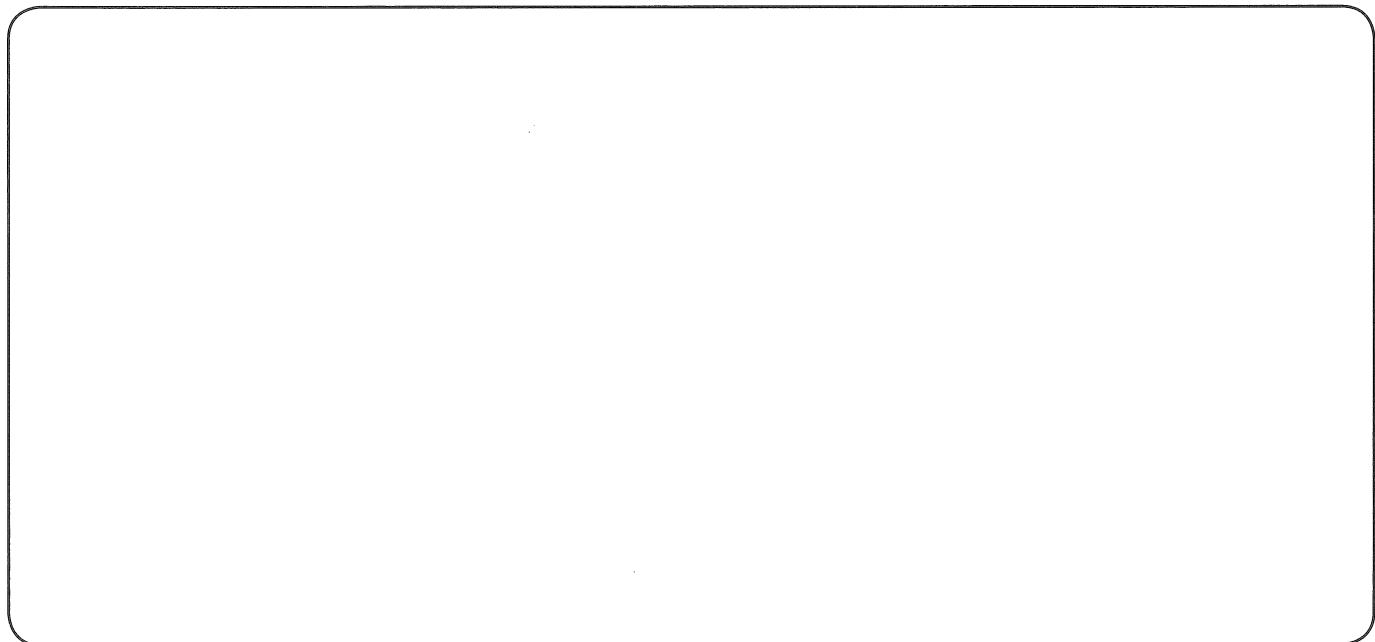
$$\frac{2}{4}$$



$$\frac{3}{6}$$

Name _____

Fractions



Words to Know

Sharing a Pie

math

fractions

equal

whole

pieces

half

fourth

original

eighth

Words to Know

Using Fractions at Home

math

fractions

water

plants

watering can

whole

part

Words to Know

Parts of a Whole

realize

math

fractions

throughout

equal

whole

series

books



Sharing a Pie

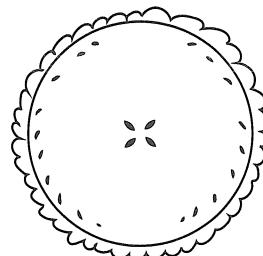
There are many ways to use math in everyday life. One way is to use fractions. Fractions are equal parts of a whole. For example, let's use fractions to talk about a pie. If you have one pie, you have **one whole**.

A whole pie looks like this:

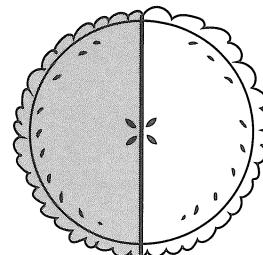
It is nice to share pie with others. Let's cut the pie into two equal pieces. Each piece of pie is half of the whole pie. The pieces are each **one-half**, or $\frac{1}{2}$. Those are big pieces of pie!

Let's cut it again. Now there are four equal pieces, and each piece is **one-fourth**, or $\frac{1}{4}$, of the original pie. The pieces are still pretty big.

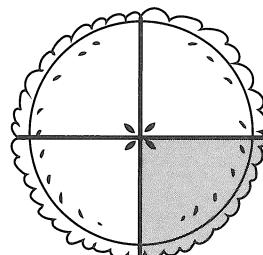
Let's cut the pie two more times, into eight equal pieces. Each piece is **one-eighth**, or $\frac{1}{8}$, of the original. Now you can share the pie with your friends!



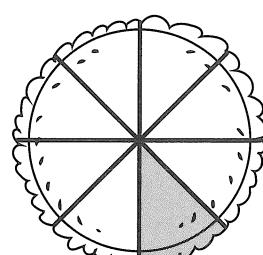
one whole pie



$\frac{1}{2}$ of the pie



$\frac{1}{4}$ of the pie



$\frac{1}{8}$ of the pie

Sharing a Pie

Fill in the circle to complete the sentence. Then answer questions 3 and 4.

1. Fractions are _____ of a whole.

- (A) part
- (B) all
- (C) most

2. You can write one-half of the pie as _____.

- (A) $\frac{1}{1}$
- (B) $\frac{1}{2}$
- (C) $\frac{1}{3}$

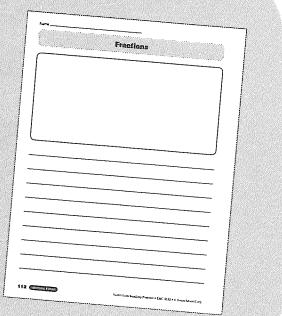
3. If something is divided into four parts, but the parts are not equal, is each part $\frac{1}{4}$? Explain your thinking.

4. Can you think of another food you could share using fractions? How would you do it?

Write About the Topic

Use the Writing Form to draw and write about what you read.

Draw a pie that has been cut into fractions.
Write about the pie to tell how fractions work.



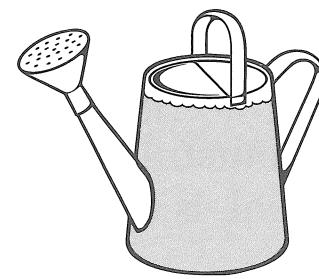
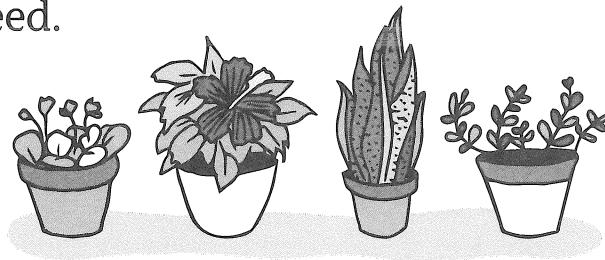
Using Fractions at Home

People use math every day. You can use fractions when you do things around the house. Fractions can help you when you water your plants. You can use fractions to help you remember how much water you need.

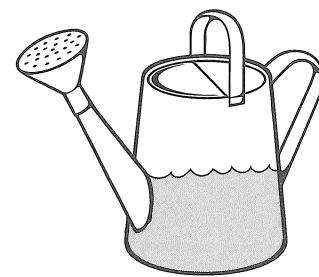
You might use a watering can to water your family's plants. How much water should you put in the can?

If you fill the watering can all of the way, you have one **whole** watering can of water. If you fill only part of the watering can, you have a **fraction** of the whole watering can of water.

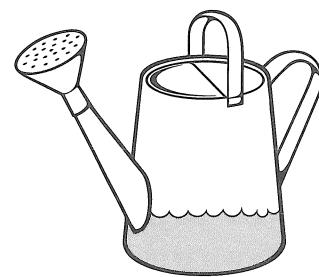
Pay attention to how much water you use. You might use $\frac{1}{2}$ of a watering can of water. You might use $\frac{1}{3}$ of a watering can of water. Remember the fraction. The next time you water the plants, fill the watering can with just enough water. This is one way math can be useful around the house.



one whole watering can of water



$\frac{1}{2}$, or one-half, watering can of water



$\frac{1}{3}$, or one-third, watering can of water

Using Fractions at Home

Fill in the circle to complete the sentence. Then answer questions 3 and 4.

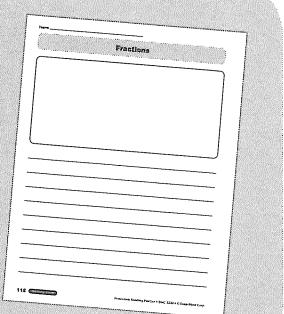
1. You can use fractions to help you remember how much _____ you need for your plants.
Ⓐ space
Ⓑ sun
Ⓒ water
2. Another way to write one-half full is _____.
Ⓐ $\frac{1}{1}$ full
Ⓑ $\frac{1}{2}$ full
Ⓒ $\frac{1}{3}$ full
3. A recipe for baking cookies uses the fraction $\frac{1}{2}$ cup water.
Why do you think the fraction is important?

4. Why is it helpful to use fractions for watering plants?

Write About the Topic

Use the Writing Form to draw and write about what you read.

Draw a watering can that is $\frac{1}{2}$ full. Write to tell about how to use fractions for watering plants.



Parts of a Whole

You might not realize how often you use math in your everyday life. Many people use fractions throughout the day. Fractions are equal parts of a whole. One way you might use fractions is to tell someone how much of a series of books you have read.

Let's say you are reading a series of books about dogs. There are three books in the series. Your friend asks you how much of the series you have read.

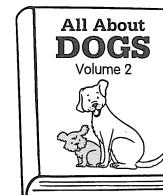
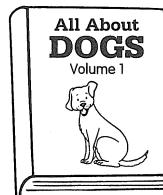
Three books make up the whole series.

If you have read one book, you have read $\frac{1}{3}$ of the series.

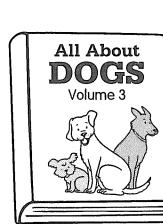
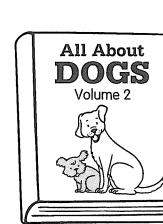
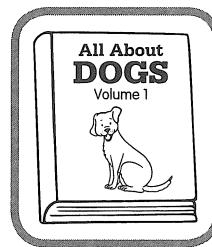
If you have read two books, you have read $\frac{2}{3}$ of the series.

If you have read three books, you've read the whole series.

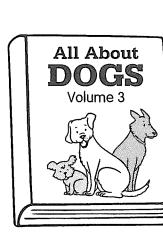
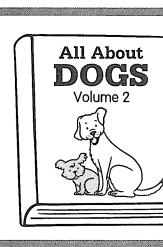
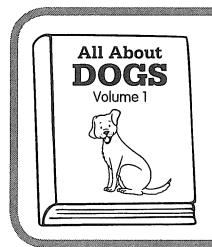
Now it's time to find more books to read!



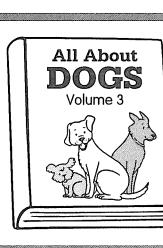
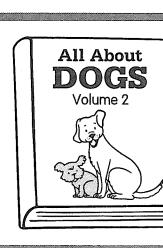
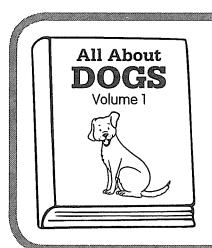
one whole series



one-third of the series



two-thirds of the series



the whole series