



# ILLUSTRATING FRACTIONS

Book 9

COMMON  
CORE  
ALIGNED

**DIVIDING A  
WHOLE  
NUMBER BY A  
FRACTION**

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

÷

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



**NO  
PREP!**  
Load Into  
Google  
Classroom  
÷  
Go!



# ILLUSTRATING FRACTIONS



## HOW TO USE THIS BOOK

### Teachers

- Upload this PDF into your Google Classroom and use individually or in centers.

### Students

- Complete each problem, then correct your own work while watching the video tutorials.
- After each problem, take your paper to your teacher for a final review.

# LAZY LION PRIDE

## BOOK 9

## CHALLENGE - I

Meet the laziest pride of lions in the entire continent of Africa. This pride of cats has found 6 trees that overlap with thick branches intertwining from one tree to the next. The Lazy Lions divide each tree into  $\frac{3}{4}$  parts. Each lion gets  $\frac{3}{4}$  of a tree for napping.

How many of these Lazy Lions are sleeping in the trees?

\* Hint: How many  $\frac{3}{4}$ 's are in 6?

### Watch ME

- For this first problem, simply watch how the problem is solved. Relax and focus on the strategies for solving the problem above.
- When the video is complete, copy the problem into your notebook, or on a piece of paper for your teacher.



Photo by  
Mary-Anne v d byl

[Click Here to view this video](#)

# Mathematical Meerkats

## Book 9

## Challenge - 2

These Meerkats are confused. They just found three tasty scorpions, which they love to eat. Now, they are leaning back and trying to do the math.

Each meerkat wants to eat  $\frac{2}{3}$  of a scorpion, because that is the perfect sized meal for a growing meerkat.

Is there enough scorpions for each of these four meerkats to have  $\frac{2}{3}$ 's of a scorpion?

How many  $\frac{2}{3}$ 's are in 3?

### WORK WITH ME

Gather the following materials:

A blank piece of paper

A pencil

PLAY THE VIDEO BY CLICKING ON THE PHOTO.

Pause the video when told.

Copy the problem down on your own paper, and solve it with me.

Pay close attention. Your next challenge will be very similar to this one.



Photo by Shane Atken

# WET WILLY

## BOOK 9

## CHALLENGE – 3

Wet Willy is an adorable pup who went for a swim in his owner's pool. He jumped out, ran into the living room, and shook himself dry. Water flew all over the place. It splashed onto 3 paintings, one of which was an irreplaceable painting of President Washington. Wet Willy knew that he did something wrong. He started licking all the water off the paintings, but he can only lick  $\frac{3}{5}$  of a painting at a time.

How many  $\frac{3}{5}$  portions of the paintings will Wet Willy have to lick before he's done?

Hint: How many  $\frac{3}{5}$ 's are in 3?

### On Your Own

- Solve this problem just as you did in the earlier one.
- Once you have completed this challenge, click on the photo.
- Keep your paper with you while you watch the video.
- If you made a mistake, pause the video and fix your mistake.

**That's the fastest way to learn!**



Photo by  
Manuella Nejaim

# JEREMIAH THE BARK LICKING GIRAFFE

## BOOK 9

## CHALLENGE – 4

**JEREMIAH GIRAFFE** has a passion for tree bark. It is his favorite meal. He wraps his tongue around a branch then pulls the bark off and into his mouth. Yesterday, Jeremiah ate bark off 2 branches. He eats  $\frac{5}{6}$  of a branch for each meal.

How many  $\frac{5}{6}$  meals of bark did Jeremiah have yesterday?

Hint: How many  $\frac{5}{6}$ 's are in 2?

### On Your Own

- Solve this problem just as you did in the earlier one.
- Once you have completed this challenge, click on the photo.
- Keep your paper with you while you watch the video.
- If you made a mistake, pause the video and fix your mistake.

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Photo by  
Kym Parry

# MONTANA THE LILY LOVING MOOSE

## BOOK 9

## CHALLENGE - 5

**MONTANA MOOSE** is always on the hunt for tasty water lilies to eat. Today he is traveling to his favorite spot, where the water lilies grow big and tasty. Montana Moose will travel 5 miles to get to the water lilies. However, Montana Moose is easily distracted. He trots for  $\frac{4}{7}$  of a mile and then notices a bird, or a frog, or a fox scampering across the prairie. Montana Moose stops and watches the animals. If Montana Moose breaks the trip into  $\frac{4}{7}$  mile sections, how many sections will he have to travel before he reaches his beloved water?

Hint: How many  $\frac{4}{7}$ 's are in 5?

### On Your Own

- Solve this problem just as you did in the earlier one.
- Once you have completed this challenge, click on the photo.
- Keep your paper with you while you watch the video.
- If you made a mistake, pause the video and fix your mistake.

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Photo by  
Lisa Langell

# BOOK 9

# BENJAMIN Bat

# CHALLENGE - 6

## WORK WITH ME

This division question is slightly different, so we will do this problem as a "Work with Me" problem. Read the problem below, grab your supplies, and go to the next page. Watch the video, and do this problem with me.

**BENJAMIN Bat** has  $\frac{1}{2}$  of tomato. He wants to share it equally between himself and his 5 best bat-friends for a total of 6 bats eating the tomato. How much will each bat will get to eat?

## WORK WITH ME

Gather the following materials:

A blank piece of paper

A pencil

PLAY THE VIDEO BY CLICKING ON THE PHOTO.

Pause the video when told.

Copy the problem down on your own paper, and solve it with me.

Pay close attention. Your next challenge will be very similar to this one.



Photo by  
Ann Petersen



# Valentina the Aspiring Veterinarian

## Book 9

### Challenge - 7

Valentina Vet wants to be a veterinarian when she grows up. She saved 4 abandoned, baby squirrels that were about to be eaten by a neighborhood cat. Each morning she divides  $\frac{3}{5}$  ounces of medicine between the 4 baby squirrels.

How much medicine does she give each baby squire?

### On Your Own

- Solve this problem just as you did in the earlier one.
- Once you have completed this challenge, click on the photo.
- Keep your paper with you while you watch the video.
- If you made a mistake, pause the video and fix your mistake.

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Photo by Kevin Johnson

# MABEL THE MILKWEED EATING MONARCH BOOK 9

## CHALLENGE – 8

MABEL MONARCH is getting ready to change into a butterfly. Mabel and her siblings are eating  $\frac{2}{3}$  of a milk weed leaf. There are 3 caterpillars in all.

If they all eat the same amount, how much will each caterpillar get to eat?

### On Your Own

- Solve this problem just as you did in the earlier one.
- Once you have completed this challenge, click on the photo.
- Keep your paper with you while you watch the video.
- If you made a mistake, pause the video and fix your mistake.

**That's the fastest way to learn!**



Photo by  
Carlos Herrera

# IGNACIO the Lettuce Sharing Iguana

## BOOK 9

## CHALLENGE - 9

IGNACIO always shares his food. He is the friendliest iguana in the rain forest. Every day, the girl from the brown house brings Ignacio a plate of lettuce. Today she brought a plate that was  $\frac{1}{4}$  full of lettuce. Ignacio shared this plate with his best friend, Lorenzo.

How much did each iguana get to eat?

### On Your Own

- Solve this problem just as you did in the earlier one.
- Once you have completed this challenge, click on the photo.
- Keep your paper with you while you watch the video.
- If you made a mistake, pause the video and fix your mistake.

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Photo by  
Patrik Affentranger

# PAMELA THE SINGING PANDA

## BOOK 9

## CHALLENGE - 10

PAMELA PANDA sings while she eats. Her favorite song is "Five Little Pandas Jumping on the Bed". She does spit a bit of food while she sings, but she has a beautiful voice, and everyone loves to hear her sing. Today she was eating  $\frac{2}{5}$  of a bamboo branch, and she sang her favorite song 3 times.

If she ate the same amount during each song, how much of the bamboo stick did she eat during each song?

### On Your Own

- Solve this problem just as you did in the earlier one.
- Once you have completed this challenge, click on the photo.
- Keep your paper with you while you watch the video.
- If you made a mistake, pause the video and fix your mistake.

**That's the fastest way to learn!**



Photo by Kim Vilardi

# Drill & Kill

In this chapter we will work with fractions over and over again.

I call this chapter, Drill & Kill, because we will drill this concept until we are perfect, and we kill any mistakes!

- The following problems can all be solved with the same strategies we used to solve the first ten problems.
- Solve all four problems on each page.
- Watch the video & correct your work.
- Review your work with your teacher.
  - If you get all 4 problems correct, your teacher may tell you that you're ready to move to the next book within this series.
  - Good Luck!

**DRILL & KILL**  
**BOOK 9**      **CHALLENGE - II**

PROBLEM 1

$$\frac{2}{3} \div 5 = ?$$

PROBLEM 2

$$4 \div \frac{2}{7} = ?$$

PROBLEM 3

$$3 \div \frac{4}{6} = ?$$

PROBLEM 4

$$\frac{1}{6} \div 8 = ?$$

**CLICK HERE**  
**to**  
**WATCH THE VIDEO**

**DRILL & KILL**  
**BOOK 9**      **CHALLENGE - 12**

PROBLEM 1

$$3 \div 1/3 = ?$$

PROBLEM 2

$$5/7 \div 4 = ?$$

PROBLEM 3

$$5 \div 2/5 = ?$$

PROBLEM 4

$$7/9 \div 2 = ?$$

**CLICK HERE**  
**to**  
**WATCH THE VIDEO**

**DRILL & KILL**  
**BOOK 9**      **CHALLENGE - 13**

PROBLEM 1

$$\frac{3}{5} \div 7 = ?$$

PROBLEM 2

$$3 \div \frac{5}{7} = ?$$

PROBLEM 3

$$\frac{2}{6} \div 2 = ?$$

PROBLEM 4

$$4 \div \frac{1}{3} = ?$$

**CLICK HERE**  
**to**  
**WATCH THE VIDEO**



**DRILL & KILL**  
**BOOK 9**      **CHALLENGE - 14**

PROBLEM 1

$$3 \div 3/4 = ?$$

PROBLEM 2

$$1/2 \div 5 = ?$$

PROBLEM 3

$$3 \div 4/5 = ?$$

PROBLEM 4

$$8/9 \div 5 = ?$$

**CLICK HERE**  
**to**  
**WATCH THE VIDEO**

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