



# ILLUSTRATING FRACTIONS

Book 8

COMMON  
CORE  
ALIGNED

MULTIPLYING  
A WHOLE  
NUMBER BY A  
FRACTION

$$6 \times \frac{3}{5}$$



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.

# EVIAN DRINKING KANGAROO

## BOOK 8

## CHALLENGE - I

You are a scientist studying the strange occurrence of a kangaroo that drinks nothing but Evian water. You are tasked with the job of making sure that the kangaroo drinks the correct amount of water.

You have 5 bottles of Evian water. You must feed the kangaroo exactly  $\frac{2}{3}$  of the Evian water. How much water will you give the kangaroo?

### 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.



[Click Here to view this video](#)

# LONG-EARED CARROT EATERS

## BOOK 8

## CHALLENGE - 2

Ever since you were tiny-tiny you loved bunnies. For your last birthday, your parents bought you two baby bunnies. You love petting their long ears as they nibble away at their food. Last night you gave them 6-carrots. They ate  $\frac{4}{7}$  of the carrots.

How much did your  
Long Eared Carrot Eaters 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.



# PINK FLAMINGO RESEARCH

## BOOK 8

## CHALLENGE – 3

You are a biologist researching pink flamingos and their diet. You are tasked with the job of discovering how much they eat. You watch as a pink flamingo eats 11 shrimp. However, you notice that the flamingo only eats  $\frac{3}{4}$  of each shrimp. The flamingo spits the rest of the shrimp into the water, where tiny fish nibble at the remains.

How much shrimp have you observed the pink flamingoes 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!**



# PETER PIPER THE PRETTY PRAYING MANTIS

## BOOK 8

## CHALLENGE – 4

You have a pet Praying Mantis named Peter Piper the Pretty Praying Mantis. He is your favorite pet. Not only is he unique, quirky, and pretty, but he eats the mosquitoes that try to bite you. However, Peter Piper does not care for the legs, so he only eats  $\frac{4}{5}$  of each mosquito. Yesterday, Peter Piper ate 7 mosquitoes.

How much did Pete Piper the Pretty Praying Mantis actually eat?

### On Your Own

- Solve this problem just as you did in the earlier one.
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Photo by Celso Pinto

# THOR THE THIRSTY RHINO

## BOOK 8

## CHALLENGE - 5

THOR THE THIRSTY RHINO is searching the arid African Plains for a watering hole. He is so thirsty that he can think of little else. In the past week he has only found 4 small ponds. He drank  $\frac{2}{3}$  of a quart from each pond.

How many quarts of water has Thor the Thirsty Rhino drank in the past week?

### On Your Own

- Solve this problem just as you did in the earlier one.
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Photo by Iwan Boin

# CRAZY ZED THE WONDERING DRAGON FLY BOOK 8

## CHALLENGE - 6

CRAZY ZED THE WONDERING DRAGON FLY loves nothing more than flying this way and that. He never flies in a straight line. According to Zed, "That is BORING!" For every mile that Zed flies he is zig-zagging and off course  $\frac{2}{5}$  of the time.

If Crazy Zed flies 8 miles, how much of the time is he off course?

### On Your Own

- Solve this problem just as you did in the earlier one.
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Photo by  
Cheryl Empey



# AMOS the ANGRY KITTEN

## BOOK 8

## CHALLENGE - 7

Amos is always angry. No one knows why he is so angry. Some people think it's because he has never caught a mouse. The mice in his barn are constantly taunting him. Amos races to get them, but they always escape, sticking their tongues out and laughing at him. Whatever the reason, Amos is angry  $\frac{5}{6}$  of every day.

What portion of the last 3 days has **AMOS the ANGRY KITTEN** been mad?

### On Your Own

- Solve this problem just as you did in the earlier one.
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- If you made a mistake, pause the video and fix your mistake.

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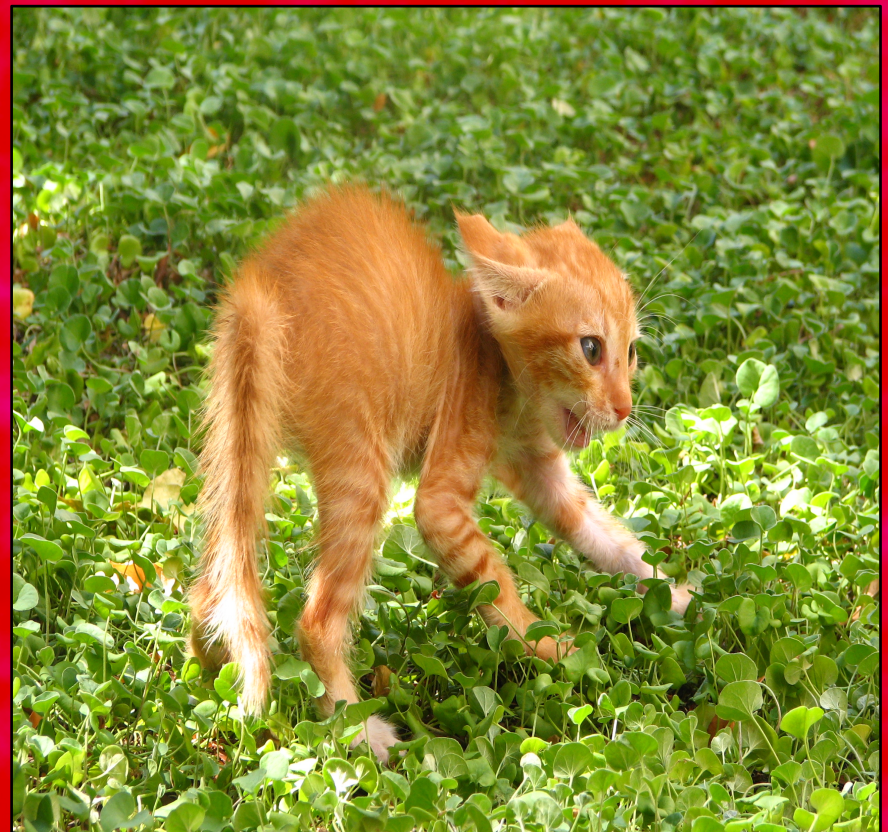


Photo by Sara Haj-Hassan

# LAPPING LARRY

## BOOK 8

## CHALLENGE – 8

LAPPING LARRY has a favorite pond. It is the only place he goes to drink. The water is always cool and refreshing. Lapping Larry does exactly 6 laps of his tongue each time he visits this pond.

If he gets  $\frac{2}{7}$  cup water with each lap of his tongue, how much water does Lapping Larry drink each time he visits this pond?

### On Your Own

- Solve this problem just as you did in the earlier one.
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Photo by Ben Parer

# EDWARD ELEPHANT

## BOOK 8

## CHALLENGE - 9

EDWARD ELEPHANT recently found out about his distant relatives – the Woolly Mammoths. His older brother, who always teases Edward, told him that if he drinks 5 trunkfuls of water from the magical river, he will grow a thick coat of fur and look like a wooly mammoth. Edward drinks 5-trunkfulls from the river every day.

However, he spills  $\frac{2}{3}$  of a trunkful each time he drinks. How many trunkfuls of “magical water” does Edward spill each day?

### On Your Own

- Solve this problem just as you did in the earlier one.
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**That's the fastest way to learn!**

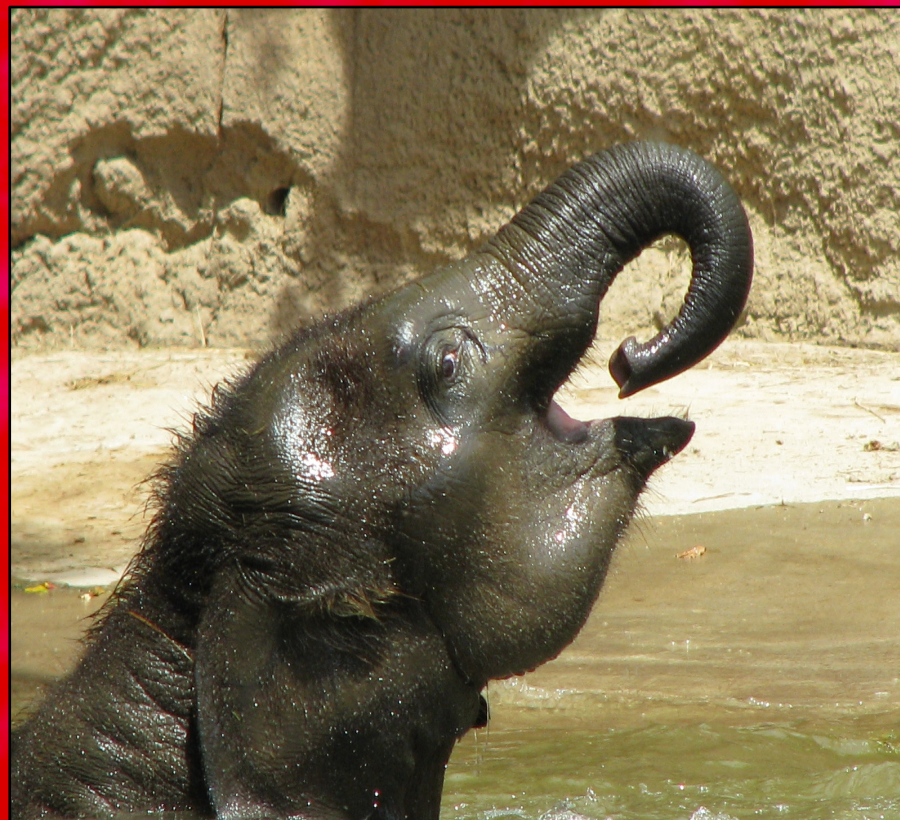


Photo by Nate Breisford

# OLLIE THE OWL

## BOOK 8

## CHALLENGE - 10

OLLIE THE OWL thinks he is royalty, because his pet human is constantly worshiping him. According to Ollie, his human prepares a special meal each morning. Then his human pet places Ollie on a specially designed leather armrest and parades Ollie all over town, while other humans throw money at their feet. Ollie is presented to the townspeople 5 days a week. He spends  $\frac{3}{5}$  of his waking hours giving a royal nod as his subjects throw money at his pet's feet.

How much of his waking hours is Ollie paraded?

### On Your Own

- Solve this problem just as you did in the earlier one.
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Photo by Joanna Vidad

# 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 8**      **CHALLENGE - II**

PROBLEM 1

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

PROBLEM 2

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

PROBLEM 3

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

PROBLEM 4

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

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

**DRILL & KILL**  
**BOOK 8**      **CHALLENGE - 12**

PROBLEM 1

$$3 \times 1/3 = ?$$

PROBLEM 2

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

PROBLEM 3

$$5 \times 2/5 = ?$$

PROBLEM 4

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

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

**DRILL & KILL**  
**BOOK 8**      **CHALLENGE - 13**

PROBLEM 1

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

PROBLEM 2

$$3 \times \frac{1}{7} = ?$$

PROBLEM 3

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

PROBLEM 4

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

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**to**  
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**DRILL & KILL**  
**BOOK 8**      **CHALLENGE - 14**

PROBLEM 1

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

PROBLEM 2

$$\frac{1}{2} \times 5 = ?$$

PROBLEM 3

$$3 \times \frac{1}{5} = ?$$

PROBLEM 4

$$\frac{1}{9} \times 2 = ?$$

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