



# ILLUSTRATING FRACTIONS

Book 7

COMMON  
CORE  
ALIGNED

**SUBTRACTING  
MIXED NUMBERS**

**$3 \frac{3}{4} - 2 \frac{5}{6}$**



**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.

## BOOK 7

# SLOW MOVING SLOTH

## CHALLENGE - I

You are on vacation in the rain forest of South America. You discover a slow sloth clawing across the ground. He is headed for a large tree  $3 \frac{3}{4}$  yards away. You watch his slow progress as he moves one foot in front of the other. After a full minute the slow sloth has only traveled  $2 \frac{5}{6}$  yards.

How much further does your **SLOW MOVING SLOTH** have to travel before he reaches his tree?

### 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](#)

## BOOK 7

# HUNGRY OCTOPUS

## CHALLENGE - 2

You are part of the Junior Marine Biology Club of America. Your Club is scuba diving off the coast of Monterey California. You observe an octopus eating clams. There are  $2 \frac{2}{3}$  clams hidden in the sand. The octopus finds and eats  $1 \frac{4}{5}$  of the clams.

How many clams does the **HUNGRY OCTOPUS** have left 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.



# CARROT CHOMPING HORSE

## BOOK 7

## CHALLENGE – 3

You have wanted a horse of your own for as long as you can remember. You have saved and saved. Finally, you have enough money for your horse. She is a beautiful mare and she loves chomping on carrots. You buy  $2 \frac{7}{9}$  carrots for her. She chomps away  $1 \frac{2}{3}$  of the carrots.

How many carrots are left?

### 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!**



# SNOWY OWL

## BOOK 7

## CHALLENGE – 4

A beautiful **SNOWY OWL** has moved into a tree behind your house. She has three baby owls that recently hatched and are growing fast. The mother owl has killed  $3 \frac{1}{2}$  mice. Her baby owls eat  $2 \frac{5}{8}$  of the mice.

How many more mice do the baby owls have to eat?

### On Your Own

- Solve this problem just as you did in the earlier one.
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# BOOK 7

# BURGER Eating PANDA

# CHALLENGE - 5

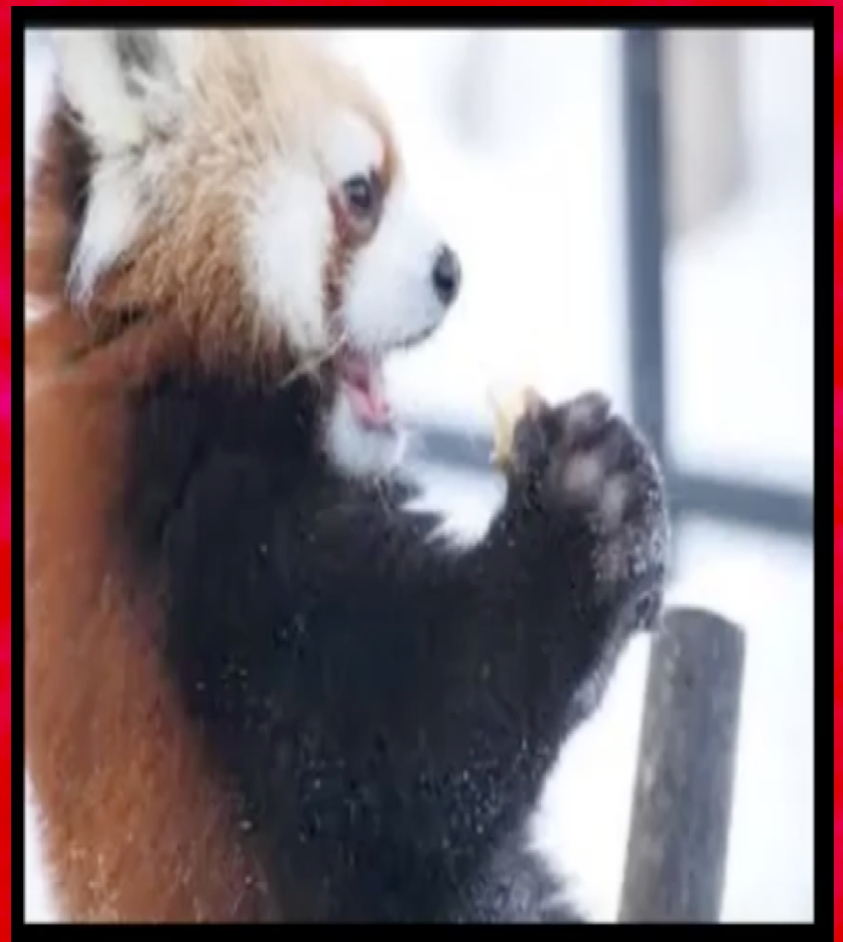
You just made friends with a red panda. He is totally cute, but a little messy. His favorite food is hamburger. You take him to In & Out Burger and order  $2 \frac{2}{3}$  burgers. He eats  $1 \frac{5}{7}$  burger in about 8-seconds.

How many burgers does your **BURGER Eating PANDA** have left to eat?

## On Your Own

- Solve this problem just as you did in the earlier one.
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# ALLAN OPEN-MOUTH

## BOOK 7

## CHALLENGE - 6

Allan Alligator loves to swim with his mouth open. All the other alligators call him, Allan Open-Mouth. Most alligators cannot swim with their mouth open, because the water rushes in and makes them sink. But, Allan Open-Mouth has perfected the technique of swimming with his mouth open. He wants to swim the entire length of his lagoon with his mouth open. The lagoon is  $3 \frac{4}{5}$  miles long. Allan has already swam  $2 \frac{1}{3}$  miles.

How much further must  
**ALLAN OPEN-MOUTH** swim?

### On Your Own

- Solve this problem just as you did in the earlier one.
- Once you have completed this challenge, click on the photo.
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PHOTO BY  
ELVIS SANTANA



# MARYANN the LONG-NOSED TOUCAN

## BOOK 7

## CHALLENGE - 7

MARYANN the LONG-NOSED TOUCAN has the largest beak in all of the Brazilian Rain Forest. Her beak is  $3 \frac{1}{6}$  decimeters long. Telic Toucan has the second largest beak.

His beak is  $2 \frac{3}{4}$  decimeters.

How much longer is Maryann the Long Nosed Toucan's beak?

### On Your Own

- Solve this problem just as you did in the earlier one.
- Once you have completed this challenge, click on the photo.
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PHOTO BY  
FERNANDO  
WEBERICH

# SALLY SEAHORSE

## BOOK 7

## CHALLENGE – 8

SALLY SEAHORSE loves eating plankton. In Sally's mind, plankton is like a big juicy steak. Sally just swam into a large body of plankton, and she is excited to start nibbling on her dinner. There is  $4 \frac{1}{2}$  milligrams of plankton floating in front of Sally.

If she eats  $2 \frac{5}{6}$  of the plankton, how much will be left?

### On Your Own

- Solve this problem just as you did in the earlier one.
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PHOTO BY  
RICHARD McMILLAN

# GINNY THE LOVE-SICK GIRAFFE

## BOOK 7

## CHALLENGE - 9

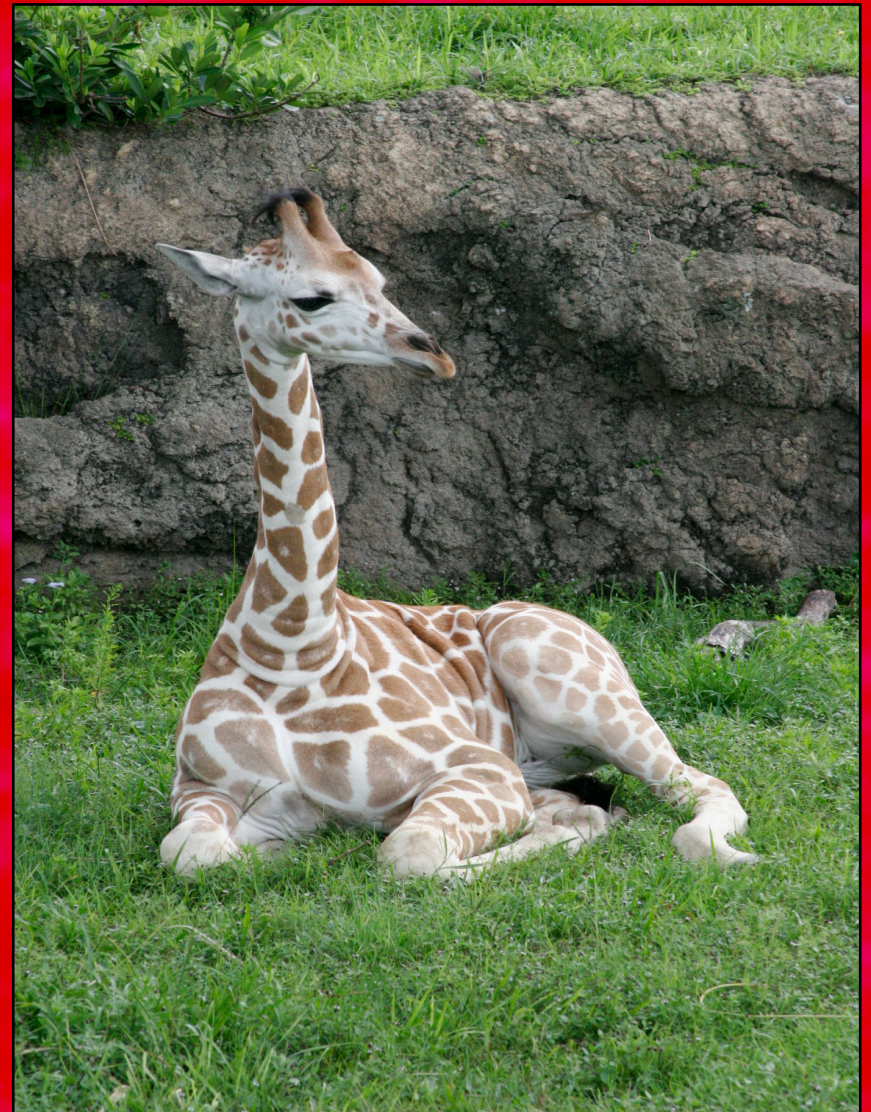
GINNY THE LOVE-SICK GIRAFFE has a big old crush on Kernan. Kernan is the tallest juvenile giraffe in her entire herd. He has legs that are  $2 \frac{2}{5}$  Meters long. Ginny's legs are  $1 \frac{1}{2}$  meters long.

How much longer are Kernan's legs than Ginny's?

### On Your Own

- Solve this problem just as you did in the earlier one.
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## BOOK 7

# BYANCA BUTTERFLY

## CHALLENGE - 10

BYANCA BUTTERFLY is dining on the delectable flowers of North Carolina. She is drinking from a flower that has  $2 \frac{1}{4}$  milligrams of nectar. Bianca has already drunk  $\frac{2}{3}$  milligrams.

How much nectar is still in this flower?

### On Your Own

- Solve this problem just as you did in the earlier one.
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PHOTO BY  
CLAUDIA MEYER

# 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 7**      **CHALLENGE - II**

PROBLEM 1

$$2 \text{ } \& \text{ } \frac{2}{3} - 1 \text{ } \& \text{ } \frac{5}{8}?$$

PROBLEM 2

$$4 \text{ } \& \text{ } \frac{3}{4} - 1 \text{ } \& \text{ } \frac{2}{7}?$$

PROBLEM 3

$$4 \text{ } \& \text{ } \frac{4}{5} - 3 \text{ } \& \text{ } \frac{5}{6}?$$

PROBLEM 4

$$5 \text{ } \& \text{ } \frac{1}{6} - 1 \text{ } \& \text{ } \frac{1}{9}?$$

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

**DRILL & KILL**  
**BOOK 7**      **CHALLENGE - 12**

PROBLEM 1

$$2 \frac{1}{8} - 1 \frac{1}{3}?$$

PROBLEM 2

$$3 \frac{3}{7} - 1 \frac{3}{4}?$$

PROBLEM 3

$$4 \frac{2}{6} - 2 \frac{1}{4}?$$

PROBLEM 4

$$2 \frac{2}{9} - 1 \frac{5}{6}?$$

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

**DRILL & KILL**  
**BOOK 7**      **CHALLENGE - 13**

PROBLEM 1

$$1 \text{ } \& \text{ } 3/8 - 1/4?$$

PROBLEM 2

$$2 \text{ } \& \text{ } 2/9 - 1 \text{ } \& \text{ } 1/2?$$

PROBLEM 3

$$2 \text{ } \& \text{ } 3/7 - 1 \text{ } \& \text{ } 3/4?$$

PROBLEM 4

$$3 \text{ } \& \text{ } 5/6 - 2 \text{ } \& \text{ } 1/9?$$

**CLICK HERE**  
**to**  
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**DRILL & KILL**  
**BOOK 7**      **CHALLENGE - 14**

PROBLEM 1

$$3 \text{ \& } 3/8 - 1 \text{ \& } 1/4?$$

PROBLEM 2

$$2 \text{ \& } 5/9 - 1/2?$$

PROBLEM 3

$$3 \text{ \& } 3/7 - 2 \text{ \& } 5/21?$$

PROBLEM 4

$$1 \text{ \& } 5/6 - 8/9?$$

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