ILLUSTRATING FRACTIONS

An Introduction - Book 1

Mathematical Models Build A Concrete Understanding!

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.

Puppy In a Seatbelt
Intro to Fractions   Challenge - 1

You and your mother bake a pan of brownies. You cut the pan of brownies into 1/6 parts, because there will be six people at your grandmother's birthday party. You load the brownies into the car. Then, you buckle your puppy next to the brownies. You think your puppy is buckled tight, but you are wrong! When you look back, you see that your puppy has escaped. He is eating some of the brownies.

There is only 4/6 of the pan of brownies left. Can you illustrate how much is left?

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

Pizza Stealing Ram
Intro to Fractions   Challenge - 2

You live in a mountain cabin. Once a month, your dad drives into town and buys a pizza for you and your mom. He cuts the pan of pizza into 1/3 parts, because there are three of you eating the pizza. You all go to the bathroom to wash up for dinner when you hear the front door burst open. The sound of hooves clip-clop on the kitchen floor. Your whole family runs into the kitchen and sees a full-grown ram eating part of your pizza.

There is only 2/3 of the pan of pizza left.

Can you illustrate how much is left?

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.

Party Crashing Cow
Intro to Fractions   Challenge - 3

You are celebrating a birthday, so your parents buy a beautiful cake for your party. All together there are nine people at the party, so your parents cut the cake into 1/9 parts. You and your friends are climbing the big oak tree in your back yard. You see the neighbor's cow leading her baby toward the picnic table. Your cake is sitting on the picnic table. It's far too tempting for the cows. Before anyone can stop them, the mother cow eats a mouthful, and the baby cow eats a nibble or two.

There is only 5/9 of the cake left. Can you illustrate how much is 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!

Lasagna Loving Moose
Intro to Fractions   Challenge - 4

It's been a long day of raking leaves and cleaning the back yard. The good news is that your mother has made you your favorite dish for dinner. It's a cheesy pan of lasagna, and it is waiting for you to dig in and chow down. You can't wait. There are seven people at your house for dinner, so your mother cuts the lasagna into 1/7 parts, and sets the dish on your dining room table. Meanwhile, a young moose has escaped from the zoo. He is about 3-years old with a new set of antlers. The moose enters your yard, walks up the steps of your back deck, and enters your dinning room. He sees the pan of lasagna sitting on the table, dips his head, and begins to munch. By the time your father can scare him away,
the moose has eaten all but 3/7 of the lasagna.
Can you illustrate how much is 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.
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Pigging Out Pigs
Intro to Fractions   Challenge - 5

Your grandmother loves to bake bread. She has just baked a large loaf and the wonderful smell fills your entire kitchen. There are fifteen aunts, uncles, and cousins at your grandmother's house, so your grandmother cuts the loaf into 1/15 parts. She places the loaf on the kitchen counter and walks into the living room to chat with you and all your relatives.

As your grandmother leaves the kitchen, two mother pigs and their piglets sneak in. There's a chair next to the counter, and one of the mother pigs uses it to climb onto the counter. She knocks the loaf to the floor and all the pigs start pigging out.

Before your grandmother can shoo the the pigs away, the pigs have eaten all but 13/15 of the loaf of bread. Can you illustrate how much is 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.
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Macaws in a Tree
Intro to Fractions   Challenge - 6

Six Macaws are sitting in a tree. They are eating nuts and chattering like birds do when they are happy. Each bird takes up 1/6 of the tree. Then four Macaws fly away.

Can you write the fraction that represents the number of birds that are still on the tree?

Can you illustrate it?

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!

Owls Hunting

Intro to Fractions   Challenge - 7

There are eight owls in a dense section of the forest. They are flying from tree to tree. Each owl takes up 1/8 of this section of forest. The owls are hunting for mice, so they can feed their baby owls. There is a movement in the underbrush and three owls swoop to the ground in hopes to catch dinner. The three owls fly out of the forest and back home to feed their baby owls.

Can you write the fraction that represents the number of owls that are still hunting this section of forest? Can you illustrate it?

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.
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Royal Flycatcher
Intro to Fractions   Challenge - 8

A red crested bird called the Royal Flycatcher has twenty-four top-feathers that make up his crest. From time to time, these top-feathers fall out and it can take some time before a new one grows in its place. Seven of these top-feathers fall out.

Can you write the fraction that represents the number of top-feathers that are sill on this bird's head?   Can you illustrate it?

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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Baby Deer
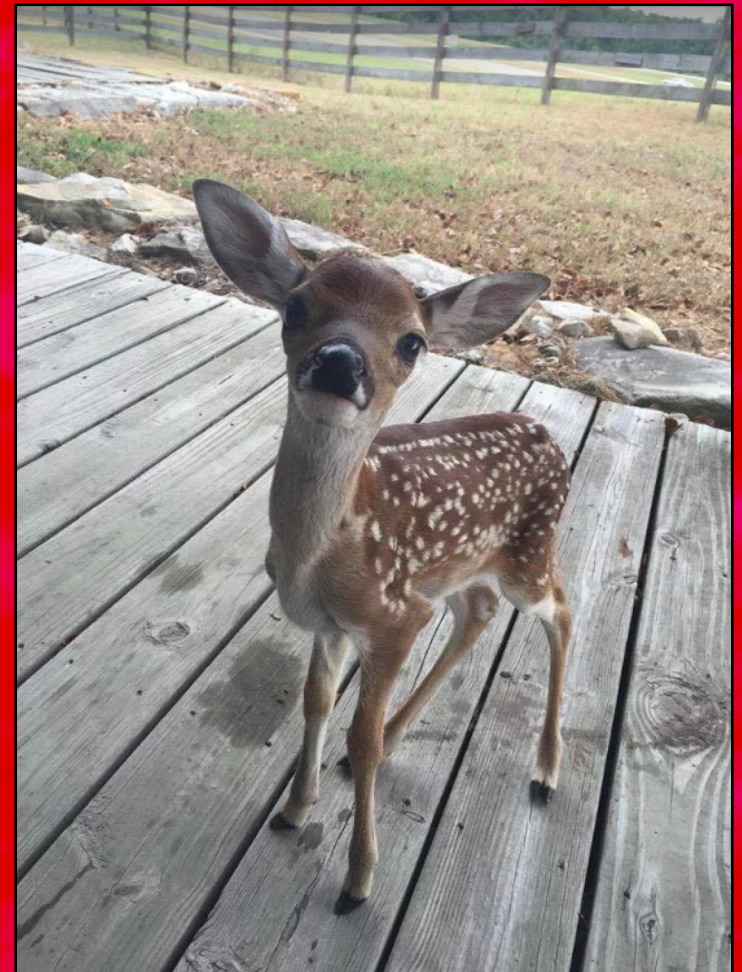## Intro to Fractions   Challenge - 9

There is a baby deer on your back deck. His feet are dirty, so each board that he steps on will have to be washed. There are twelve boards in all on your back deck. The baby deer steps on 9 on those boards.

Can you write the fraction that represents the number of boards on your back deck that will have to be washed? Can you illustrate it?

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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Pups for Sale
Intro to Fractions   Challenge - 10

There are seven purebred puppies for sale at an award winning breeder's home. A little boy and his mother come to see them, and they buy one of the puppies. A little later, a little girl and her father come to see the puppies, and they buy another one.

Can you write the fraction that represents the number of puppies that are left? Can you illustrate it?

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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Drill & Kill

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

I call this chapter, <u>Drill & Kill</u>, 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
Intro to Fractions   Challenge - 11

Problem 1 Can you illustrate 3/5?	**Problem 2** Can you illustrate 7/9?
Problem 3 Can you illustrate 1/4?	**Problem 4** Can you illustrate 4/7?

Click Here to Watch the Video

PROBLEM 1 CAN YOU ILLUSTRATE **5/6?**	**PROBLEM 2** CAN YOU ILLUSTRATE **7/9?**
PROBLEM 3 CAN YOU ILLUSTRATE **3/4?**	**PROBLEM 4** CAN YOU ILLUSTRATE **4/5?**

Click Here
to Watch the Video

Problem 1 Can you illustrate **5/8**?	**Problem 2** Can you illustrate **4/9**?
Problem 3 Can you illustrate **3/7**?	**Problem 4** Can you illustrate **2/5**?

Click Here to Watch the Video

Drill & Kill
Intro to Fractions   Challenge - 14

PROBLEM 1 CAN YOU ILLUSTRATE 5/7?	**PROBLEM 2** CAN YOU ILLUSTRATE 2/9?
PROBLEM 3 CAN YOU ILLUSTRATE 3/8?	**PROBLEM 4** CAN YOU ILLUSTRATE 1/6?

Click Here to Watch the Video

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