Area Division

Book 6

- ❑ Dividing when your answer is a Decimal
  - ➢ 533 ÷ 82 = 6.5
- ❑ Designed so that anyone can succeed at long division!
- ❑ Fun animals word problems.

$$\frac{6.5}{.5}$$
$$6.0$$

$$82 \quad \begin{array}{|r|} \hline 533.0 \\ - 492.0 \\ \hline \end{array}$$
$$\begin{array}{|r|} \hline 41.0 \\ - 41.0 \\ \hline \end{array}$$
$$0$$

NO PREP!
Load Into Google Classroom & Go!

Area Division
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.
❑ If you do NOT have all your multiplication facts memorized, make sure to watch the entire video. Say the "counting by the numbers" at the end of each video so that you can use this strategy until you memorize all your multiplication facts.
❑ After each problem, take your paper to your teacher for a final review.

You are an expert rock climber. Your favorite thing to do on a sunny day is to climb a challenging escarpment. This rock face is 533 feet high. You climb to the top in just 82 minutes. On an average, how many feet do you climb per minute?

Click Here to view this video

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.

You are a scientist studying the strange occurrence of camels eating clouds. This camel has eaten 108 clouds in just 48 hours. On average, how many clouds did this camel eat per hour?

CLICK HERE to view this video

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.

You are an ornithologist. That's a scientist who studies every aspect of birds, including their songs, their flight patterns, their physical appearances, and their migration patterns. Today, you are studying the beautiful humming bird. This bird has drunk 703 milligrams of nectar in just 76 hours. On average, how many milligrams of nectar has this bird drank per hour?

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!

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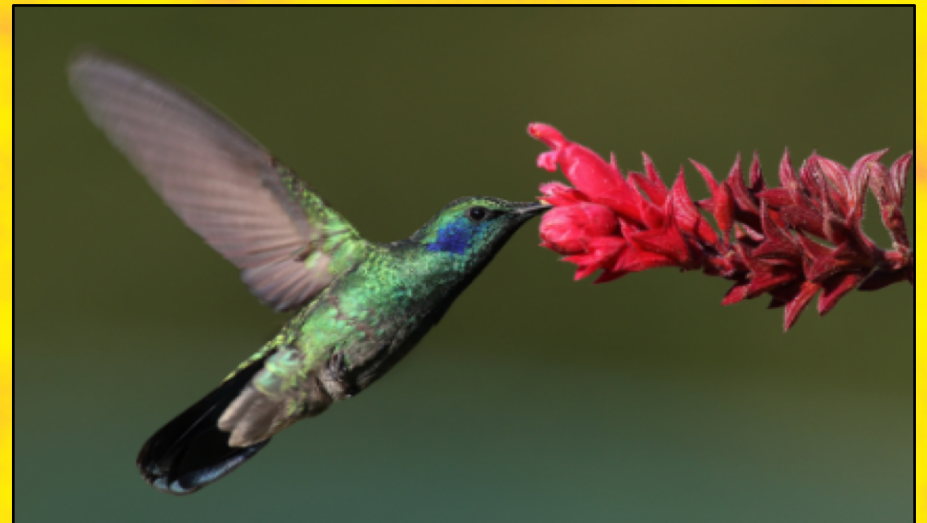
Praying Mantis to the Rescue
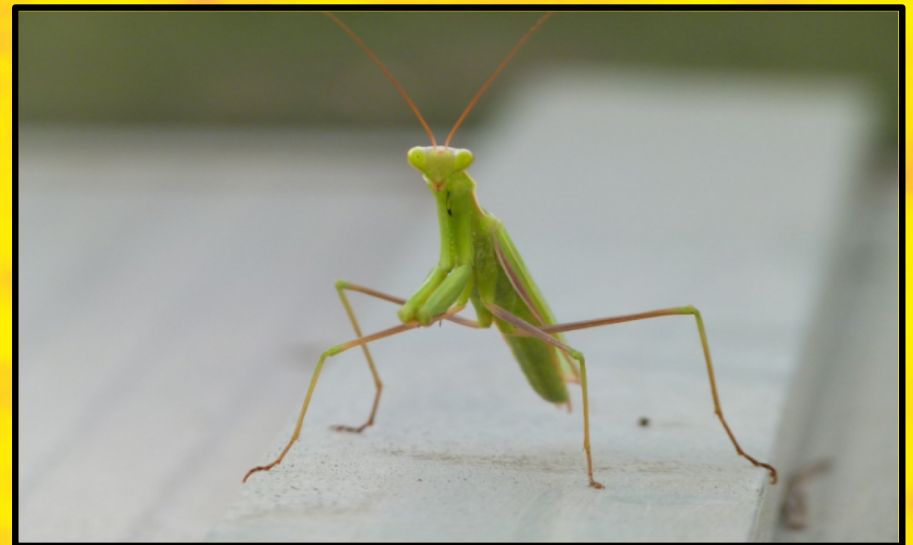## Book 6   Challenge – 4

You and your family just moved to a beautiful house that is surrounded by a deep forest of trees. Unfortunately, there are hundreds of wasps, crickets, beetles, and black widow spiders. You get 28 praying mantises as pets, because you heard that they eat wasps, crickets, and beetles, but that their favorite food is black widow spiders. There are a total of 462 wasps, crickets, beetles, and black widow spiders in your yard. If each praying mantis eats the same number of insects, how many insects does each praying mantis eat?

On Your Own

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Tiffany Tiger is thirsty. She drinks 250 ounces of water with 40 laps of her tongue. If she gets the same amount of water with each lap of her tongue, then how many ounces of water does Tiffany Tiger get with each lap of her tongue?

Click Here to view this video

On Your Own

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Meet Darryl the Dragon Fly. He is the hungriest dragon fly this side of the Mississippi, and his favorite food is mosquitoes. Darryl catches 5 out of every 6 mosquitoes that fly past him. In other words, he catches 5/6 of the mosquitos that fly past him.

How would you represent 5/6 as a decimal?

Hint – 5/6 can also be written as 5 ÷ 6

Click Here to view this video

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!

Meet Suri Swan. He sleeps most of the day away, dreaming about the swan that got away. That's right, Suri was in love with Sydney Swan. In Suri's mind, she was the most beautiful swan in the entire world. But she loved another. Now, Suri spends his days sleeping and thinking about the swan of his dreams. Suri sleep 18 out of every 24 hours. In other words, he sleeps 18/24 of the day. How would you represent 18/24 as a decimal?
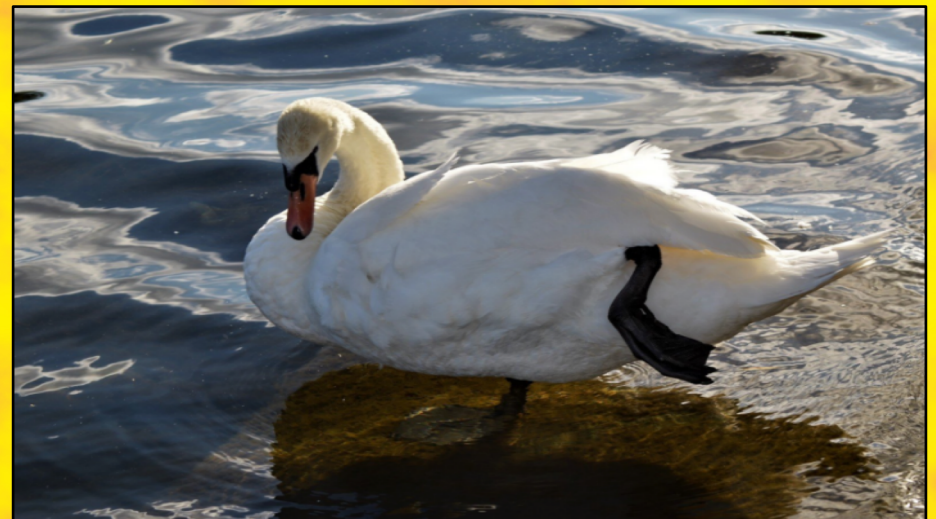
Hint – 18/24 can also be written as 18 ÷ 24

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!

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Leia the Ring Tailed Lemur is the perfect mother. She is devoted to her baby and spends most of waking hours feeding him. Leia sleeps 9 hours a day, snoozing in the tree tops with her baby boy on her lap. She spends 12 of her 15 waking hours feeding her baby.

Leia feeds her baby 12 out of every 15 hours that she is awake. In other words, she feeds him 12/15 of her waking hours.

How would you represent 12/15 as a decimal?

Hint – 12/15 can also be written as 12 ÷ 15

On Your Own

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to view this video

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That's the fastest way to learn!

Say hello to Elfred Elephant. Elfred Elephant is a sloppy drinker. If you look closely you can see the steam of water dripping from his mouth. As a matter of fact, Elfred spills 2/3 of all the water in his trunk. How much of the water in Elfred's trunk goes into his mouth and get drunk?

How would you represent your answer as a decimal?

Hint – 2/3 can also be written as 2 ÷ 3

On Your Own

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That's the fastest way to learn!

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Little Orango is the newest addition to the Orangutan family living in Borneo. Once he is a bit older, Orango will spend most of his day, high in the trees, swinging from branch to branch. However, right now Orango is 4/5 of a year old, and he likes to spend his mornings laying on his back in the cool grasses. How would you represent Orango's age as a decimal?

Hint – 4/5 can also be written as 4 ÷ 5

On Your Own

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Drill & Kill

Here is where we <u>Drill</u> until we <u>Kill</u> all our 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

Any Mistakes

1. Complete the 4-problems below.
2. Watch this Video by clicking on the cloud.
   a) Keep your paper with you while you watch the video.
   b) If you made a mistake, pause the video and fix your mistake.
   c) That's the fastest way to learn!

PROBLEM 1   324 ÷ 45 =

PROBLEM 2   Convert 4/6 into a
decimal

PROBLEM 3   611 ÷ 65 =

PROBLEM 4   Convert 5/9 into a
decimal

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Drill & Kill

Any Mistakes

1. Complete the 4-problems below.
2. Watch this Video by clicking on the cloud.
   a) Keep your paper with you while you watch the video.
   b) If you made a mistake, pause the video and fix your mistake.
   c) That's the fastest way to learn!

PROBLEM 1   378 ÷ 28 =

PROBLEM 2   Convert 5/3 into a
decimal

PROBLEM 3   315 ÷ 75 =

PROBLEM 4   Convert 7/5 into a
decimal

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Drill & Kill

Any Mistakes

1. Complete the 4-problems below.
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   a) Keep your paper with you while you watch the video.
   b) If you made a mistake, pause the video and fix your mistake.
   c) That's the fastest way to learn!

PROBLEM 1   574 ÷ 56 =

PROBLEM 2   Convert 9/6 into a
decimal

PROBLEM 3   154 ÷ 88 =

PROBLEM 4   Convert 7/8 into a
decimal

CLICK HERE
to view this video

Drill & Kill

Any Mistakes

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2. Watch this Video by clicking on the cloud.
   a) Keep your paper with you while you watch the video.
   b) If you made a mistake, pause the video and fix your mistake.
   c) That's the fastest way to learn!

PROBLEM 1 $116 \div 16 =$

PROBLEM 2   Convert 1/5 into a
decimal

PROBLEM 3 $833 \div 98 =$

PROBLEM 4   Convert 3/15 into a
decimal

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