



AREA MULTIPLICATION

2 X 3 DIGIT WITH DECIMALS (IE: 0.93 x 4.83)

Common
Core
Aligned

Includes 26 PROBLEMS
EACH ONE IS LINKED TO A VIDEO TUTORIAL

$$\begin{array}{r} 0.93 \times 4.83 \\ 4.83 \\ \hline 0.03 \quad 1449 \\ 0.90 \quad 43470 \\ \hline 4.4919 \end{array}$$



No
PREP!
Designed
So
Anyone
Can
Multiply!



AREA MULTIPLICATION



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.

Stealthy Sea Otters

Book 5

Challenge 1

These **STEALTHY SEA OTTERS** live in a fishing port just north of San Francisco, California. They wait for the fishing boats to return with their catch, then they sneak in, all stealthy like, and steal some of the fish. Yesterday, a boat came in with 0.607 of a ton of fish. The Stealthy Sea Otters stole 0.048 of the fish. How many tons of fish did they steal?

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 Jenny Rollo

Randy & Candy

Book 5

Challenge – 2

RANDY & CANDY love to play. They are a couple of thoroughbred racehorses. Randy and Candy are predicted to win The Kentucky Derby when they grow up. Last Tuesday they spent 9.69 hours running, jumping, and frolicking through the pasture. A television news reporter filmed 0.037 of the time that they were playing. How many hours was Randy and Candy's the news report?

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
Rodolfo Belloli

MABEL THE MILKWEED EATING MONARCH

Book 5

Challenge 3

MABEL THE MILKWEED EATING MONARCH is hungry. She is crawling across a milkweed plant that has 2.804 pounds of leaves. Over the next two weeks, Mabel will eat 0.57 of those leaves. How many pounds of leaves will Mabel the Milkweed Eating Monarch 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

PAMELA PANDA THE SINGING PANDA BEAR

Book 5

Challenge 4

PAMELA PANDA THE SINGING PANDA BEAR can sing longer than any other bear in the entire world. Last year, at the National Bear Sing Off, Pamela sang for 13 hours straight. This year, Pamela plans on singing 8.34 times longer. If Pamela Panda the Singing Panda Bear accomplishes her goal, how long will she sing?

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 Vilaridi

VLADIMIR VULTURE

Book 5

Challenge 5

VLADIMIR VULTURE is afraid of no one. He even flies in and scares off lions that have just killed a Water buffalo. Last month, lions have killed three water buffalos. All together the buffalos weighed 924 pounds. Vladimir Vulture flew in and ate 0.078 of the total water buffalo meat. How much water buffalo meat did Vladimir 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
Martin Walls

Teddy Roosevelt the Roosevelt Elk

Book 5

Challenge 6

TEDDY ROOSEVELT THE ROOSEVELT ELK has a great rack. His horns weigh 6,052 grams. But, they are still growing. By the end of this season, Teddy's rack will grow 3.4 times heavier. Then his rack will fall off, and Teddy will have to grow a new rack next season. How big will Teddy Roosevelt's rack be by the end of this season?

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 Kevin Abbott



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Penelope Darbari the Poison Dart Frog

Book 5

Challenge 7

PENELOPE DARBARI THE POISON DART FROG loves to eat mosquitoes. As a matter of fact, Penelope thinks mosquitoes taste even better than ribeye steak. Penelope ate 5,409 mosquitoes last month. If each mosquito weighed 2.5 milligrams, how many milligrams of mosquitoes did Penelope Darbari the poison Dart Frog 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.
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Reginal Ram

Book 5

Challenge 8

REGINAL RAM loves to headbutt other rams. He rocks up onto his back legs, then he comes crashing down into the horns of the other ram, creating 800.75 pounds of force. If Reginal clashes horns with 36 other rams, how many pounds of forces will Reginal create?

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 Bill Sarver



MILLIE MONKEY

Book 5

Challenge 9

MILLIE MONKEY nibbles on bananas. She nibbles and nibbles all day long. The banana grove in Millie's nature reserve produces 0.673 tons of bananas every week. Each day Millie consumes 0.0047 of the weekly banana yield. How many tons of banana does Millie eat each day?

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
Jeroen Van Langenhove

Payton Penguin

Book 5

Challenge 10

PAYTON PENGUIN is always the last one out of the water. He loves the thrill of catching fish in the Antarctic Ocean. If Payton's little section of the Antarctic Ocean contains 3.78 tons of fish, and Payton catches 0.0017 of those fish each day, how many tons of fish does Payton Penguin eat each day?

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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- If you made a mistake, pause the video and fix your mistake.

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Photo by
Jan Will



CHAPTER

2

More Practice

- 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!

Area Multiplication Challenge II

CHALLENGE A

$$0.93 \times 5.96$$

CHALLENGE B

$$5.9 \times 0.857$$

CHALLENGE C

$$46 \times 9.42$$

CHALLENGE D

$$0.87 \times 643$$

**THIS IS AN
ON YOUR OWN PROBLEM**

Complete these Problems, then, Click Here to watch the Video!

Area Multiplication Challenge 12

CHALLENGE A

$$0.54 \times 38.6$$

CHALLENGE B

$$4.8 \times 2.87$$

CHALLENGE C

$$26 \times 0.324$$

CHALLENGE D

$$0.35 \times 538$$

**THIS IS AN
ON YOUR OWN PROBLEM**

Complete these Problems, then, Click Here to watch the Video!

Area Multiplication
Challenge 13

CHALLENGE A

$$0.74 \times 0.391$$

CHALLENGE B

$$8.6 \times 8.04$$

CHALLENGE C

$$63 \times 33.7$$

CHALLENGE D

$$7.8 \times 219$$

THIS IS AN
ON YOUR OWN PROBLEM

Complete these Problems, then, [Click Here to watch the Video!](#)

Area Multiplication Challenge 14

CHALLENGE A

$$0.31 \times 8.26$$

CHALLENGE B

$$4.5 \times 0.484$$

CHALLENGE C

$$39 \times 6.36$$

CHALLENGE D

$$2.7 \times 609$$

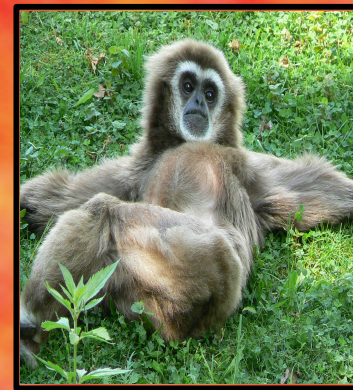
**THIS IS AN
ON YOUR OWN PROBLEM**

Complete these Problems, then, Click Here to watch the Video!

A SPECIAL THANKS TO ALL THE PHOTOGRAPHERS FROM
FREEIMAGES.COM
WHO ALLOWED ME TO USE THEIR AMAZING PICTURES TO CREATE THIS BOOK.!



Photos by:
Jenny Rollo, Rodolfo Belloli, Carlos Herrera, Kim Vilardi,
Martin Walls, Kevin Abbott, Andy Rogers, Bill Sarver,
Jeroen Van Langenhove, and Jan Will



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Thank you Brian McCoy

