



AREA MULTIPLICATION

2 X 2 DIGIT (IE: 86 X 97)

Common
Core
Aligned

Includes 26 PROBLEMS
EACH ONE IS LINKED TO A VIDEO TUTORIAL

$$\begin{array}{r} 86 \times 97 \\ 97 \\ 6 \quad \boxed{582} \\ 80 \quad \boxed{+ 7760} \\ \hline 8342 \end{array}$$



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.

Ernie the Emu

Book I Challenge I

ERNIE THE EMU loves having his photo taken. As a matter of fact, Ernie gets his photo taken more than any other animal on the African Savanna. He sticks his face in front of anyone he sees with a smart phone or a camera. Ernie is 86 days old. He has had his photo taken exactly 97 times every day of his life. How many photos have been taken of Ernie the Photo-Hungry Emu?

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](#)



Photo by Richard Dudley

Pinky Tuskadaro the Calculating Orangutan

Book 1 Challenge – 2

Meet **PiNKY TUSKADARO the CALCULATING ORANGUTAN**. Right now, Pinky is trying to figure out how many bananas he has eaten in the past 48 days. If he ate 39 bananas each day, how many bananas has Pinky eaten?

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.

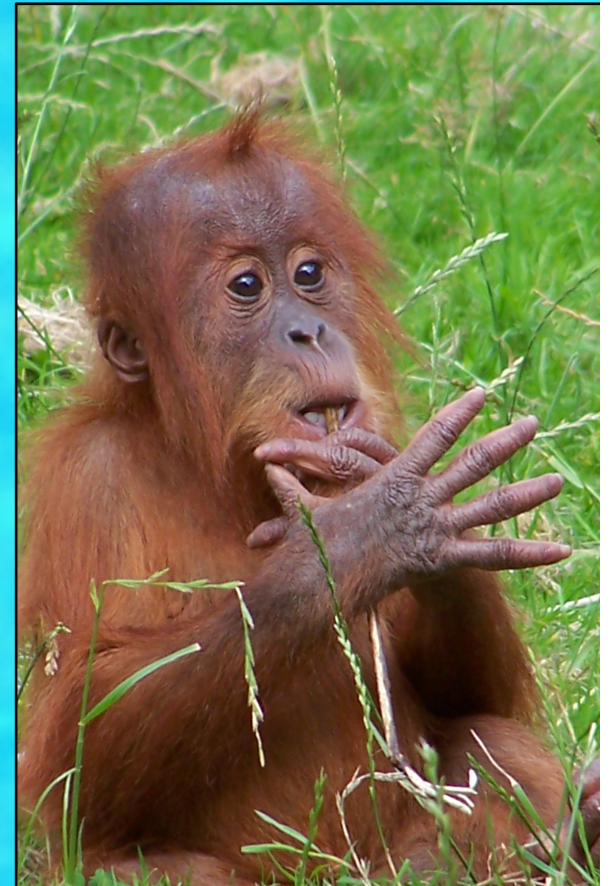


Photo by Cliff Howard

WRONG WAY JOHN

Book 1

Challenge 3

WRONG WAY JOHN is a wandering giraffe who always gets stuck in the brambles. He traveled 36 miles a day for the past 27 days, and got stuck 113 times. How far did Wrong Way John travel in the past 27 days?

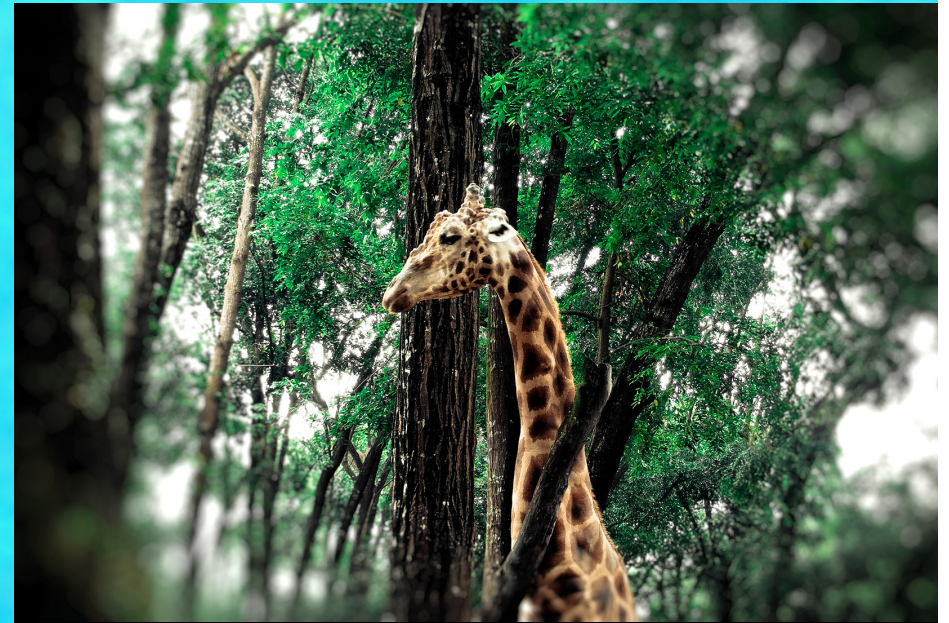


Photo by Nino Satria

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!

MONI MONARCH

Book 1

Challenge 4

MONI MONARCH is a hard working butterfly. She flies from flower to flower sucking up the sweet, sweet nectar. Once she lands on a flower, she slowly beats her wings while she sucks the nectar through her long tongue. It takes 94 beats of her wings before she can suck all the nectar from the flower. If Moni Monarch gets nectar from 64 flowers, how many times must she flap her wings in order to get all the sweet nectar from these flowers?

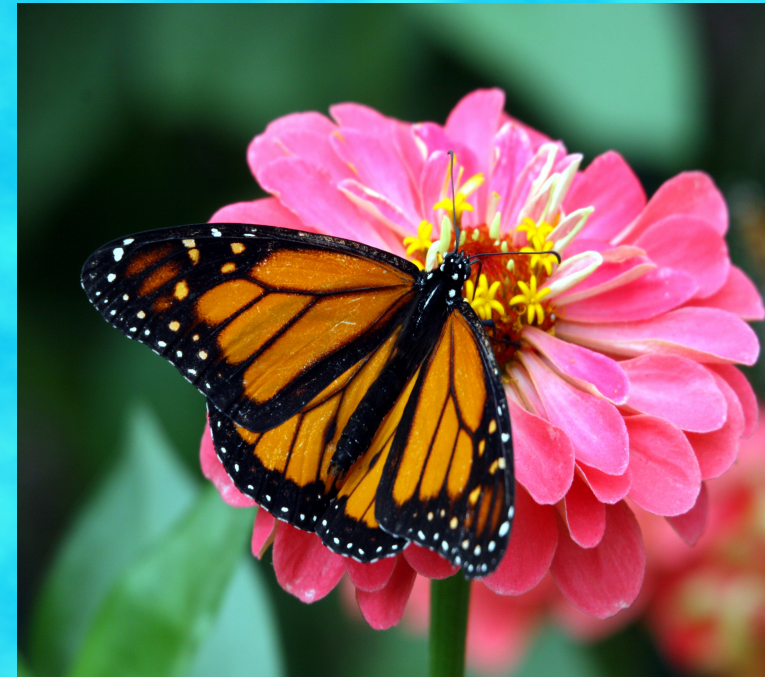


Photo by Margan Zajdowicz

On Your Own

- Solve this problem just as you did in the earlier one.
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HIDE & SEEK WITH OSCAR THE ORANGUTAN

Book 1

Challenge 5

OSCAR ORANGUTAN Oscar Orangutan is the best when it comes to hide & seek. He plays hide & seek every single day of his life. As a matter of fact, he has hidden 38 times per day for the past 76 days. Every time, he hid in a different spot. How many different places has Oscar the Hide & Seek Orangutan hidden?



Photo by Dan Edwards

On Your Own

- Solve this problem just as you did in the earlier one.
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Daisy ^{the} Ditzzy Giraffe

Book 1

Challenge 6

DAISY THE DITZY GIRAFFE is afraid of her own height. When she stands up straight, her head is 12 feet from the ground. Her biggest fear is toppling over and wrecking her beautiful giraffe-face. When she gets dizzy, Daisy lays down and kisses the Earth 43 times. With each kiss, she thanks Mother Earth for keeping her safe. Last month, Daisy got dizzy 57 times. In the last month, how many times has Daisy the Ditzzy Giraffe kissed the Earth?



Photo by Anthony Thomas

On Your Own

- Solve this problem just as you did in the earlier one.
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Mathematical Meerkats

Book 1

Challenge 7

Meet the **Mathematical Meerkats**.

They are constantly solving mathematical problems. Last year, NASA called on them to help discover the distance between a number of different solar systems within our galaxy. The Mathematical Meerkats helped NASA 88 times. Each time they helped NASA, the meerkats worked for 49 hours straight in order to discover the correct answer to the problem. How many hours did the Mathematical Meerkats spend helping NASA last year?



Photo by Shane Atken

On Your Own

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Ferlon the High-Fiving Tortoise

Book 1

Challenge 8

FERLON the High-Fiving Tortoise loves to stroll through his neighborhood and give all his friends 99 high-fives. Every day he gives 99 high-fives to each of his neighbors. If Ferlon the High-Fiving Tortoise has 63 neighbors, how many high-fives does he give each day?



Photo by Gerla Brakkee

On Your Own

- Solve this problem just as you did in the earlier one.
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PETER PIPER THE PRETTY PRAYING MANTIS

Book 1

Challenge 9

PETER PIPER THE PRETTY PRAYING MANTIS wants to rid the world of mosquitoes. At every meal, Peter Piper eats 67 mosquitoes, and Peter Piper is a hungry praying mantis. He has 73 meals each day. How many mosquitoes does Peter Piper the Pretty Praying Mantis eat each day?

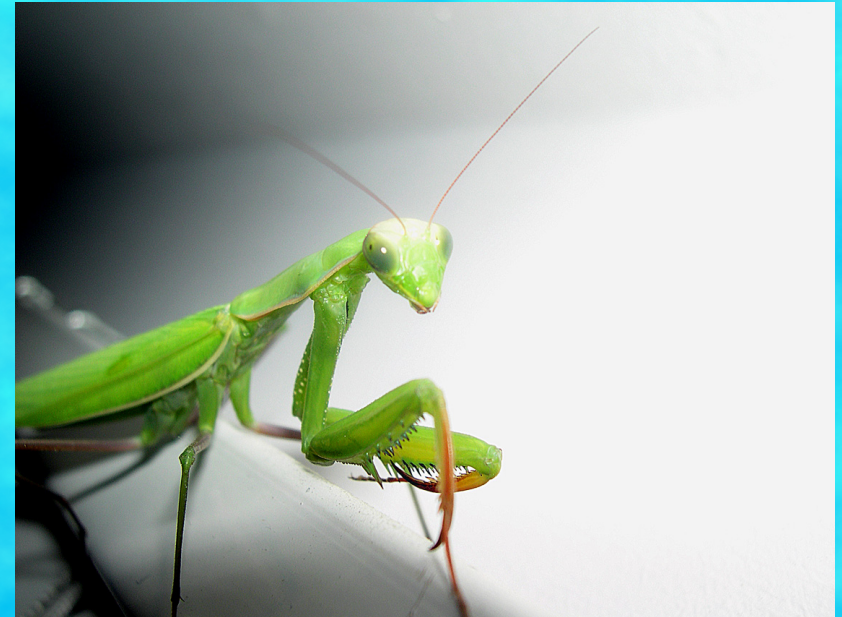


Photo by Celso Pinto

On Your Own

- Solve this problem just as you did in the earlier one.
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Allan Open-Mouth

Book 1

Challenge 10

ALLAN OPEN-MOUTH is a swimmer. He loves swimming back and forth across his lagoon. Each day, Allan Open-Mouth completes 74 lagoon laps. How many lagoon laps will Allan Open-Mouth complete in the next 35 days?



Photo by Elvis Santana

On Your Own

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

$$48 \times 76$$

CHALLENGE B

$$29 \times 87$$

CHALLENGE C

$$38 \times 42$$

CHALLENGE D

$$77 \times 63$$

THIS IS AN
ON YOUR OWN PROBLEM

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

Area Multiplication
Challenge 12

CHALLENGE A

$$92 \times 76$$

CHALLENGE B

$$67 \times 87$$

CHALLENGE C

$$33 \times 63$$

CHALLENGE D

$$81 \times 99$$

THIS IS AN
ON YOUR OWN PROBLEM

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

Area Multiplication
Challenge 13

CHALLENGE A

$$92 \times 39$$

CHALLENGE B

$$67 \times 84$$

CHALLENGE C

$$83 \times 77$$

CHALLENGE D

$$81 \times 19$$

THIS IS AN
ON YOUR OWN PROBLEM

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

Area Multiplication
Challenge H

CHALLENGE A

$$97 \times 82$$

CHALLENGE B

$$64 \times 38$$

CHALLENGE C

$$72 \times 53$$

CHALLENGE D

$$16 \times 49$$

THIS IS AN
ON YOUR OWN PROBLEM

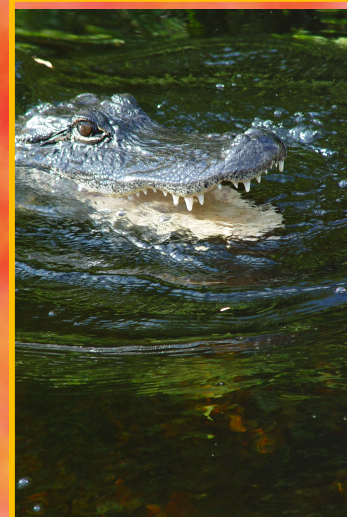
Complete these Problems, then, Click Here to watch the Video!

A SPECIAL THANKS TO ALL THE PHOTOGRAPHERS FROM
FREEIMAGES.COM

WHO ALLOWED ME TO USE THEIR AMAZING PICTURES TO CREATE THIS BOOK!

Photos by:

Richard Dudley, Celso Pinto, Cliff Howard, Elvis Santana, Shane
Atken, Gerla Brakkee, Nino Satria, Margan Zajdowicz,
& Dan Edwards, Anthony Thomas



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