



# THE DEADLY PIT

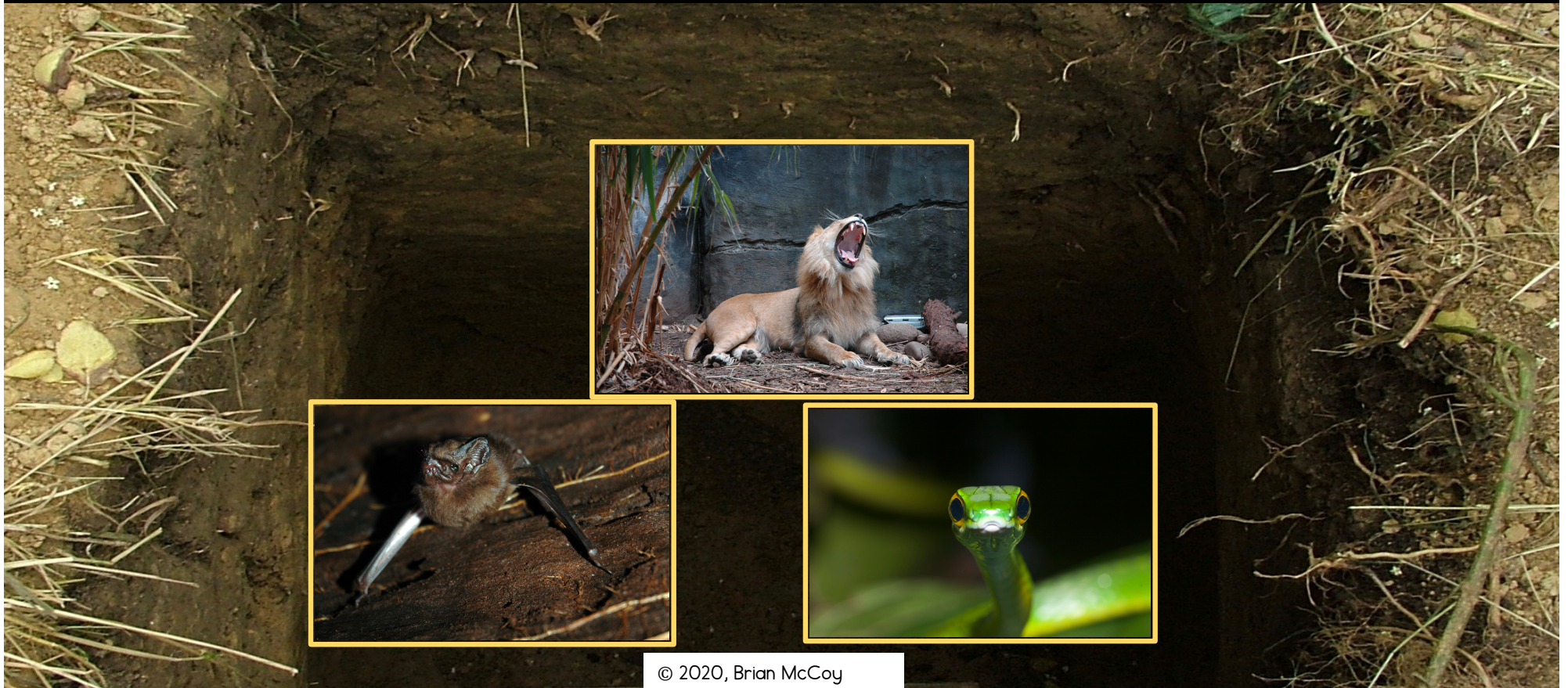


BOOK 3

USING T-CHARTS

WHEN SOLVING RATIO & PROPORTION PROBLEMS.

- ❑ Students use ratios to solve “real-world” problems involving 3 variables!
  - ❑ **Warning** - My problems are more fun than real.
- ❑ **Includes** a Video **Tutorial** for **Each** Problem!





# THE DEADLY PIT



## HOW TO USE THIS BOOK

### Teachers

- Upload this PDF into your Google Classroom.

### Students

- Complete each problem.
- Correct your own work, while watching the video tutorials.
- After correcting your work, take your paper to your teacher for a final check.

# You have fallen into a Deadly Pit!

Book 3

Challenge 1

Your only hope of escape is to solve this problem!

Your Deadly Pit contains lions, vampire bats, and poisonous snakes. The pit contains 5 times as many vampire bats as lions, and  $\frac{3}{5}$  as many snakes as vampire bats.

1. Write a ratio that represents the animals in your pit.
2. If there are 9 snakes, how many lions are in your pit?
3. If there are 63 creatures in all, how many lions, vampire bats, and poisonous snakes are in your deadly pit?



Photo by Dhany Syamsuddin



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Photo by Wesley Oliveira

This is a  
Watch Me Problem  
Click Here to watch [€](#) then copy this problem!

# You have fallen into a Deadly Pit!

Book 3

Challenge 2

Your only hope of escape is to solve this problem!

Your Deadly Pit contains bison, crazed monkeys, and cheetahs. The pit contains 9 times as many monkeys as bison, and  $\frac{4}{9}$  as many cheetahs as monkeys.

1. Write a ratio that represents the animals in your pit.
2. If there are 36 monkeys, how many cheetahs are in your pit?
3. If there are 98 creatures in all, how many bison, crazed monkeys, and cheetahs are in your deadly pit?



Photo by Shannon Sims



Photo by Jon Ng.



Photo by Mark Karstad

Click Here to  
Work With ME  
On this problem!

# You have fallen into a Deadly Pit!

Book 3

Challenge 3

Your only hope of escape is to solve this problem!

Your Deadly Pit contains jaguars, scorpions, and snapping turtles. The pit contains 7 times as many scorpions as jaguars, and  $\frac{2}{7}$  as many turtles as scorpions.

1. Write a ratio that represents the animals in your pit.
2. If there are 28 scorpions, how many jaguars are in your pit?
3. If there are 100 creatures in all, how many jaguars, scorpions, and snapping turtles are in your deadly pit?



Photo by Scott Liddell



Photo by Xsxeutor



Photo by Stan-Lee T.P.

This is an  
On Your Own Problem  
Complete the problem.  
Then Click Here to check your work!

# You have fallen into a Deadly Pit!

Book 3

Challenge 4

Your only hope of escape is to solve this problem!

Your Deadly Pit contains black bears, desert snakes, and angry zebras. The pit contains 8 times as many snakes as bears, and  $\frac{5}{8}$  as many zebras as snakes.

1. Write a ratio that represents the animals in your pit.
2. If there are 56 snakes, how many zebras are in your pit?
3. If there are 70 creatures in all, how many black bears, desert snakes, and angry zebras are in your deadly pit?



Photo by Bugdog



Photo by Patrick Nijhuis



Photo by Beerbeer

This is an  
On Your Own Problem  
Complete the problem.  
Then Click Here to check your work!

# You have fallen into a Deadly Pit!

Book 3

Challenge 5

Your only hope of escape is to solve this problem!

Your Deadly Pit contains rams, bald eagles, and killer kangaroos. The pit contains 6 times as many eagles as rams, and  $\frac{2}{3}$  as many kangaroos as eagles.

1. Write a ratio that represents the animals in your pit.
2. If there are 16 kangaroos, how many rams are in your pit?
3. If there are 77 creatures in all, how many Rams, Bald Eagles, and Killer Kangaroos are in your deadly pit?



Photo by Bill Sarver



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Photo by Sam Field

This is an  
On Your Own Problem  
Complete the problem.  
Then Click Here to check your work!

# The Deadly Pit

Book 3

Challenge 6

This is an  
On Your Own Problem

## Refreshment Time!

You have worked up a thirst, after battling over 572 creatures and escaping the deadly pit. Now, you are making some refreshing Kool-Aid. The directions say to mix 14 cups of water with  $2\frac{1}{4}$  scoop of Kool-Aid mix.

1. Write a ratio that represents your mixture.
2. How many scoops of Kool-Aid mix are needed to make a 35 cup pitcher?
3. About what percentage of this drink is Kool-Aid mix? You may need to round off your answer and give an estimated percentage.

Complete the problem.  
Then Click Here to check your work!



# The Deadly Pit

Book 3

Challenge 7

This is an  
On Your Own Problem

## Kung fu Class!

You already know how to battle 196 animals at a time. Now, you take a Kung Fu class, and you can battle 379 animals at the same time.

1. Write an equation that represents the total number of animals that you can battle. Use the variable "n" to represent the new animals you learned to battle in Kung Fu class.
2. How many new animals did you learned to battle in Kung Fu class?

Complete the problem.  
Then Click Here to check your work!

# The Deadly Pit

Book 3

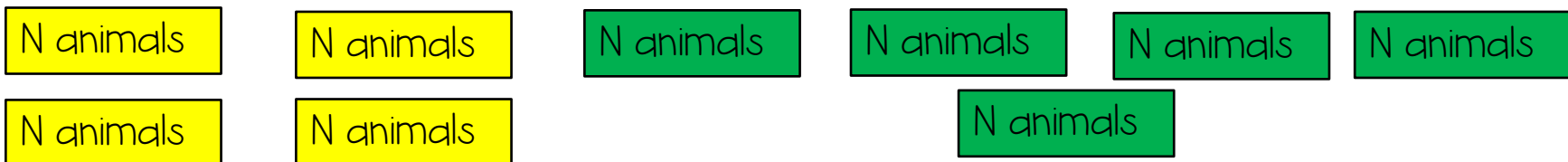
Challenge 8

This is an  
On Your Own Problem

## A Best Friend's help!

You and your best friend jump into the deadly pit and start battling 72 killer creatures. The ratio of creatures you battle is represented by yellow squares. The ratio of creatures your friend battles is represented by green squares.

- How many creatures are represented by each square?



Complete the problem.  
Then Click Here to check your work!

# The Deadly Pit

Book 3

Challenge 9

This is an  
**On Your Own Problem**

## Racing Away!

You jump, scramble, and claw your way up and out of the deadly pit. Killer creatures are chasing after you, but you hop on a motorcycle and race away. You drive 105 miles in 25 minutes.

- How far will you travel after 60 minutes?

Complete the problem.  
Then Click Here to check your work!

# The Deadly Pit

Book 3

Challenge 10

This is an  
On Your Own Problem

## Battle Time!

You can battle 726 animals in 6 hours. However, you can only battle for 9 hours a day, before you must crawl out and rest until tomorrow. There are 5,445 animals in your deadly pit.

- How many days are needed for you to battle all the animals in your deadly pit?

Complete the problem.  
Then Click Here to check your work!

# The Deadly Pit

Book 3

Challenge II

This is an  
On Your Own Problem

## Percent of Creatures!

You jump into a deadly pit and begin battling killer creatures. 21% of the total number of creatures in your pit equals 93. You defeat 35% of the total creatures?

How many creatures have you defeated?

Complete the problem.  
Then Click Here to check your work!

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