



THE DEADLY PIT

Common
Core
Aligned

BOOK I
USING T-CHARTS

WHEN SOLVING RATIO & PROPORTION PROBLEMS.

- ❑ Students use ratios to solve “real-world” problems involving 2 variables!
 - ❑ **Warning** – My problems are more fun than real.
 - ❑ **Includes** a Video **Tutorial** for **Each** Problem!



**NO
PREP!**

Upload
Into
Google
Classroom
And Go!



THE DEADLY PIT



HOW TO USE THIS BOOK

Teachers

- Upload this PDF into your Google Classroom and use individually or in centers.

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.

BOOK 1

YOU HAVE FALLEN INTO A DEADLY PIT!

CHALLENGE 1

Your only hope of escape is to solve this problem!

Your Deadly Pit contains grizzly bears, and poisonous frogs. The pit contains 9 times as many frogs as bears.

1. Write an equation that represents the total number of frogs in your pit. Let the letter b represent bears and f represent frogs.
2. If there are 54 frogs, how many bears are in your pit?
3. If there are 70 creatures in all, how many frogs and bears are in your deadly pit?



Photo by Michael Joosten



Photo by Andy Rogers

THIS IS A
WATCH ME PROBLEM
CLICK HERE TO WATCH & THEN COPY THIS PROBLEM!

YOU HAVE FALLEN INTO A DEADLY PIT!

BOOK 1

CHALLENGE 2

YOUR ONLY HOPE OF ESCAPE IS TO SOLVE THIS PROBLEM!

Your Deadly Pit contains leopards, and alligators. The pit contains 4 times as many alligators as leopards.

1. Write an equation that represents the total number of alligators in your pit. Let the letter l represent leopards and the letter a represent alligators.
2. If there are 20 alligators, how many leopards are in your pit?
3. If there are 55 creatures in all, how many leopards and alligators are in your deadly pit?

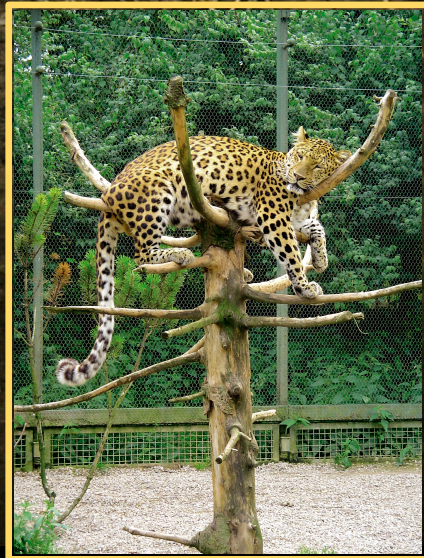


Photo by G Schouten de Jel



Photo by B Smart

**THIS IS A
WORK WITH ME
CLICK HERE TO WATCH & THEN COPY THIS PROBLEM!**

YOU HAVE FALLEN INTO A DEADLY PIT!

BOOK 1

CHALLENGE 3

YOUR ONLY HOPE OF ESCAPE IS TO SOLVE THIS PROBLEM!

Your Deadly Pit contains vampire bunnies You know, (like Bunnicula), and killer pups. They may look cute, but trust me; They're deadly! The pit contains 7 times as many killer pups as vampire bunnies.

1. Write an equation that represents the total number of puppies in your pit. Let the letter b represent bunnies and p represent puppies.
2. If there are 42 killer pups, how many vampire bunnies are in your pit?
3. If there are 72 creatures in all, how many bunnies and puppies are in your deadly pit?



Photo by Rooling

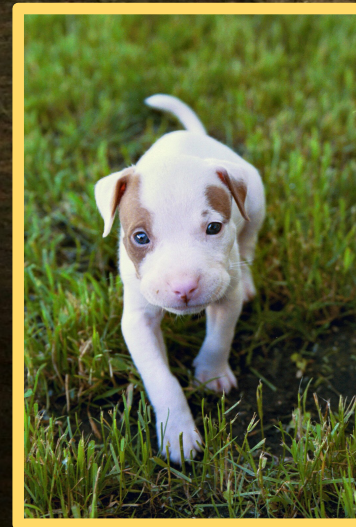


Photo by Babytoes95

**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 1

CHALLENGE 4

YOUR ONLY HOPE OF ESCAPE IS TO SOLVE THIS PROBLEM!

Your Deadly Pit contains cobras, and Rhinos. The pit contains 6 times as many snakes as rhinos.

1. Write an equation that represents the total number of rhinos in your pit. Let the letter the letter r represent rhinos and s represent snakes.
2. If there are 36 snakes, how many rhinos are in your pit?
3. If there are 49 creatures in all, how many rhinos and cobras are in your deadly pit?



Photo by Thad Zajdowicz



Photo by Blaackhawk

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 1

CHALLENGE 5

YOUR ONLY HOPE OF ESCAPE IS TO SOLVE THIS PROBLEM!

Your Deadly Pit contains tigers and bulls. The pit contains 8 times as many tigers as bulls.

1. Write an equation that represents the total number of tigers in your pit. Let the letter t represent tigers and b represent bulls.
2. If there are 56 tigers how many bulls, are in your pit?
3. If there are 81 creatures in all, how many tigers and bulls are in your deadly pit?



Photo by Cher1969



Photo by William Picard

**THIS IS A
WATCH ME PROBLEM
CLICK HERE TO WATCH & THEN COPY THIS PROBLEM!**

More Practice

The following problems can all be solved with the same strategies we used to solve the first five problems.

You may have to...

- Write a formula and plug in the numbers to solve for the answer.
- Write a formula and use the box method to solve for the variable.
- Create a T-chart to solve the problem.

Complete these problems, then click on the link to watch the video tutorial and check your work.

The Deadly Pit

BOOK 1

CHALLENGE 6

THIS IS AN
ON YOUR OWN PROBLEM

REFRESHMENT TIME!

You have worked up a thirst, after battling over 90 creatures and escaping the deadly pit. Now, you are making some refreshing Kool-Aid. The directions say to mix 4 cups of water with 1 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 16 cup pitcher?
3. What percentage of this drink is Kool-Aid mix?

**COMPLETE THE PROBLEM.
THEN CLICK HERE TO CHECK YOUR
WORK!**

THE DEADLY PIT

BOOK 1

CHALLENGE 7

THIS IS AN
ON YOUR OWN PROBLEM

KUNG FU CLASS!

You already know how to battle 12 animals at a time. Now, you take a Kung Fu class, and you can battle 34 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 learn to battle in kung fu class?

**COMPLETE THE PROBLEM.
THEN CLICK HERE TO CHECK YOUR
WORK!**

The Deadly Pit

BOOK 1

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 30 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?

N animals

N animals

N animals

N animals

N animals

N animals

COMPLETE THE PROBLEM.
THEN CLICK HERE TO CHECK YOUR
WORK!

The Deadly Pit

BOOK 1

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 37 miles in 15 minutes.

- How far will you travel after 60 minutes?

**COMPLETE THE PROBLEM.
THEN CLICK HERE TO CHECK YOUR
WORK!**

The Deadly Pit

BOOK 1

CHALLENGE 10

THIS IS AN
ON YOUR OWN PROBLEM

BATTLE TIME!

You can battle 30 animals in 4 hours. However, you can only battle for 8 hours a day, before you must crawl out and rest until tomorrow. There are 420 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 I

CHALLENGE II

THIS IS AN
ON YOUR OWN PROBLEM

PERCENT OF CREATURES!

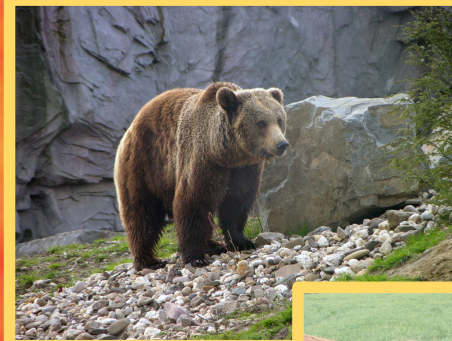
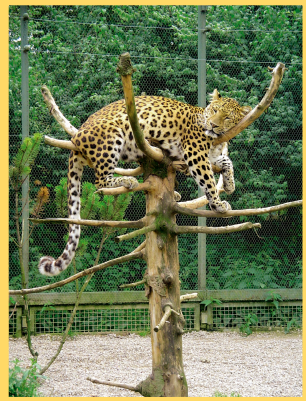
You jump into a deadly pit and begin battling killer creatures. 35% of the total number of creatures in your pit equals 18. You defeat 70% of the total creatures?

How many many creatures have you defeated?

COMPLETE THE PROBLEM.
THEN CLICK HERE TO CHECK YOUR
WORK!

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

Photos by:
Michael Joosten, Andy Rogers, G Schohuten de Jel
, B Smart, Rooling, Babytoes95, Thad Zajdowicz, Blaackhawk,
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