



# DANGEROUS WATERS



## BOOK I NEGATIVE NUMBERS

☐ Each Problem has its own Video Tutorial!

☐ Students use number lines to solve “real-world” problems!

☐ **Warning** - My problems are more fun than real.

**C) Inequality**

$$-12 < 5$$
$$5 > -12$$

**A) The Number Line**

POSITIVE INTEGERS

NEGATIVE INTEGERS

5  
0  
-12

**D) Total Distance Traveled**

$$|5| + |-12|$$
$$5 + 12$$
$$17 \text{ Feet}$$

**B) Absolute Value**

$$|5| = 5$$
$$|-12| = 12$$



# DANGEROUS WATERS



## 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.

# DANGEROUS WATERS

BOOK 1

CHALLENGE 1

You are standing 5 feet above Alligator Lake. There are hundreds of alligators in these dangerous waters. Your friends Triple Dog Dare you to swim 12 feet under the surface of Alligator Lake. Your only hope of survival is to complete the following correctly:

- A. Draw a number line. Label your starting point 5 and your end point  $-12$ .
- B. Write the absolute value for both your starting point and your end point.
- C. Write two inequalities for your starting point and your end point.
- D. What is the distance between your starting point and your end point?



Lake photo by Pellini  
Animal photo by B Smart



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

# DANGEROUS WATERS

## BOOK 1

## CHALLENGE 2

Montana Moose starts his day taking a cool drink from the dangerous waters of this lake. The temperature at the lake is 8 degrees Celsius. In the evening, he runs to the top of the mountains where he looks over the beautiful vista. The temperature at the mountain top is -18 degrees Celsius.

- A. Draw a number line. Label the temperature at the lake 8 and the temperature on the mountain top -18.
- B. Write the absolute value for both 8 and -18.
- C. Write two inequalities for 8 and -18.
- D. What is the difference between 8 and -18?



Photo by  
Lisa Langell



Lake photo by Jack Sanders

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

# DANGEROUS WATERS

## BOOK 1

## CHALLENGE 3

You are on a mission to save Komo the Komodo Dragon. He is sick and needs a veterinarian. Komo lives in these dangerous water of Indonesia. You have \$25 from your hard earned allowance that you want to donate. You borrow another \$13 from your parents that you also want to donate, which is equivalent to having a negative \$13. Komo's only hope of survival is for you to complete the following correctly: .

- A. Draw a number line. Label the donation from your allowance as point 25 and the money you borrowed as point -13.
- B. Write the absolute value for both -13 and 25.
- C. Write two inequalities for -13 and 25.
- D. What is the total amount of money that you gave to save Komo?



**THIS IS AN ON YOUR OWN  
COMPLETE THE PROBLEM. THEN CLICK HERE!**

# DANGEROUS WATERS

## BOOK 1

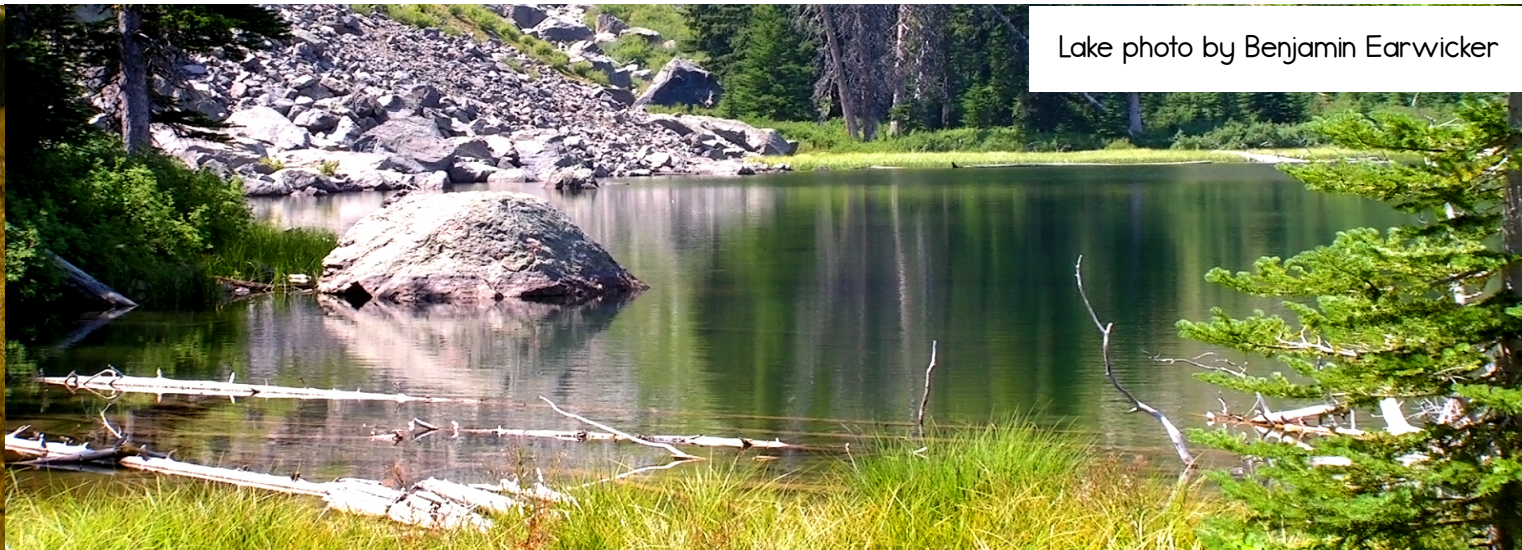
## CHALLENGE 4

You have been hiking all day in the hot, summer heat. You come across these dangerous waters and want nothing more than to jump in and cool off. The problem is that there are thousands of one-armed crayfish that love to clamp down on the toes of unsuspecting swimmers. You are standing on the rocky hill 23 feet above Crayfish Lake. You dive in and swim 7 feet under the surface of the Lake. Your only hope of avoiding those pinchers is to complete the following correctly:

- Draw a number line. Label your starting point 23 and your end point  $-7$ .
- Write the absolute value for both your starting point and your end point.
- Write two inequalities for your starting point and your end point.
- What is the distance between your starting point and your end point?



Photo by Gerla Brakkee



Lake photo by Benjamin Earwicker

**THIS IS AN ON YOUR OWN  
COMPLETE THE PROBLEM. THEN CLICK HERE!**

# DANGEROUS WATERS

## BOOK 1

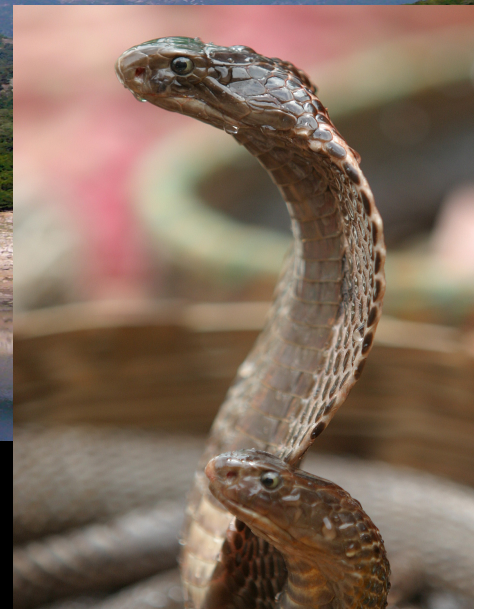
## CHALLENGE 5

You are floating 9 feet under the dangerous waters of Cobra Cove. There are thousands of deadly snakes that come down for a drink of water each evening. In order to reach the safety of the trees, you must swim up and out of the water, and then get 15 feet above the surface of these dangerous waters. Your only hope of survival is to answer the following questions correctly.

- A. Draw a number line. Label your starting point  $-9$  and your end point  $15$ .
- B. Write the absolute value for both your starting point and your end point.
- C. Write two inequalities for your starting point and your end point.
- D. What is the distance between your starting point and your end point?



Lake photo by Christopher Libert  
Animal photo by Blaackhawk



**THIS IS AN ON YOUR OWN**  
**COMPLETE THE PROBLEM. THEN CLICK HERE!**

# DANGEROUS WATERS

## BOOK 1

## CHALLENGE 6

Vampire Mountain is beautiful, but don't go swimming in these dangerous waters after dark! That's when the Vampires come out. The waters are 25 degrees Celsius. The patches of snow on the mountain top are  $-8$  degrees Celsius. Your only hope of escaping these vampire bats is to answer the following questions correctly.

- Draw a number line. Label the temperature at the lake 25 and the temperature on the mountain top  $-8$ .
- Write the absolute value for both 25 and  $-8$ .
- Write two inequalities for 25 and  $-8$ .
- The difference between these two temperatures?



Lake photo by Lisa McLean  
Animal photo by Adam Brokes



**THIS IS AN ON YOUR OWN**  
**COMPLETE THE PROBLEM. THEN CLICK HERE!**



# DANGEROUS WATERS

## BOOK 1

## CHALLENGE 7

You are dying to travel to Scorpion Lake. Millions of poisonous scorpions surround the deadly waters of this lake. But that won't stop you. You love scorpions and have been saving for 3 years to travel to these dangerous waters. So far, you have saved \$79. You need to borrow another \$47 from your parents, which is equivalent to having a negative \$47. Your parents say that they will only loan you the money if you can complete the following correctly:

- A. Draw a number line. Label the money you saved as 79 and the money you must borrow as -47.
- B. Write the absolute value for both 79 and -47.
- C. Write two inequalities for 79 and -47.
- D. What is the total amount of money that you need in order to travel to these dangerous waters?



**THIS IS AN ON YOUR OWN  
COMPLETE THE PROBLEM. THEN CLICK HERE!**

# DAngEROUS WAtERS

## BOOK 1

## CHALLENGE 8

On a glorious morning, you find these dangerous waters, and you jump in for a relaxing swim. You are 23 feet under the surface when this hippo attacks. He tries to chomp down on your leg, but you are too fast. You swim to the surface, clamber out of the water, and climb that tree right there as fast as you can. The angry hippo chases, circling the tree, while you cling to the branches 19 feet above the surface of the water. Your only hope of escape is to answer the following questions correctly.

- Draw a number line. Label your starting point  $-23$  and your end point  $19$ .
- Write the absolute value for both your starting point and your end point.
- Write two inequalities for your starting point and your end point.
- The distance between your starting point and your end point.

Lake photo by Anna Pearce  
Animal photo by Walkman200



**THIS IS AN ON YOUR OWN  
COMPLETE THE PROBLEM. THEN CLICK HERE!**

# DANGEROUS WATERS

## BOOK 1

## CHALLENGE 9

Reginal Ram is up on the tippy top of that mountain hiding in the clouds. The temperature is a brisk  $-22$  degrees Celsius. Needless to say he is cold, so he scrambles down the rocky ridge to these dangerous waters where hungry cougars are always on the lookout for a tasty meal. Reginal takes a drink of water. The water temperature is  $17$  degrees Celsius. Reginal's only hope of survival is for you to answer the following correctly.

- Draw a number line. Label the temperature of the lake  $17$  and the temperature on the mountain top  $-22$ .
- Write the absolute value for both  $17$  and  $-22$ .
- Write two inequalities for  $17$  and  $-22$ .
- The difference between these two temperatures?



Lake photo by Tatjana CH  
Animal photo by Bill Sarver



**THIS IS AN ON YOUR OWN  
COMPLETE THE PROBLEM. THEN CLICK HERE!**

# DANGEROUS WATERS

## BOOK 1

## CHALLENGE 10

You have traveled to a mysterious land where vultures grow as big as a man, but that's not the half of it. These vultures also eat humans. Right now you are 34 feet above the surface of these dangerous waters. In order to escape uneaten, you must get to your submarine, which is 64 feet under the surface. Your only hope of survival is to answer the following questions correctly.

- A. Draw a number line. Label your spot on the land point 34 and your submarine point  $-64$ .
- B. Write the absolute value for both 34 and  $-64$ .
- C. Write two inequalities for 34 and  $-64$ .
- D. The distance between 34 and  $-64$ .

Lake photo by Paco Sancho  
Animal photo by Martin Walls



**THIS IS AN ON YOUR OWN**  
**COMPLETE THE PROBLEM. THEN CLICK HERE!**

# DRILL & KILL

HERE IS WHERE WE DRILL UNTIL WE KILL ALL OUR MISTAKES!

I call this section of the book, Drill & Kill, because we will drill this concept until we are perfect, and we kill any 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

Book I

Challenge – II

## PROBLEM 1

Draw a number line to represent  $-7$  and  $4$

## PROBLEM 2

Write the absolute value of  $-7$  and  $4$

## PROBLEM 3

Write two inequalities for  $-7$  and  $4$

## PROBLEM 4

What is the difference between  $-7$  and  $4$

CLICK HERE  
to  
WATCH the VIDEO

# Drill & Kill

Book 1

Challenge – 12

## PROBLEM 1

Draw a number line to represent  $-12$  and  $12$

## PROBLEM 2

Write the absolute value of  $-12$  and  $12$

## PROBLEM 3

Write two inequalities for  $-12$  and  $12$

## PROBLEM 4

What is the difference between  $-12$  and  $12$

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to  
WATCH the VIDEO

# Drill & Kill

Book 1

Challenge – 13

## PROBLEM 1

Draw a number line to represent 17 and -5

## PROBLEM 2

Write the absolute value of 17 and -5

## PROBLEM 3

Write two inequalities for 17 and -5

## PROBLEM 4

What is the difference between 17 and -5

CLICK HERE  
to  
WATCH the VIDEO



# Drill & Kill

Book 1

Challenge – 14

## PROBLEM 1

Draw a number line to represent 21 and -6

## PROBLEM 2

Write the absolute value of 21 and -6

## PROBLEM 3

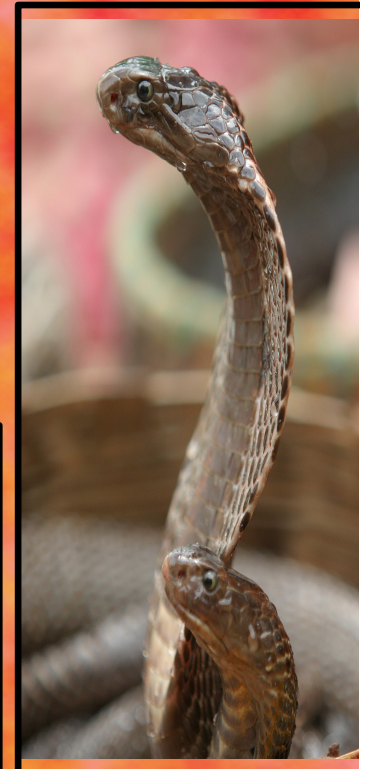
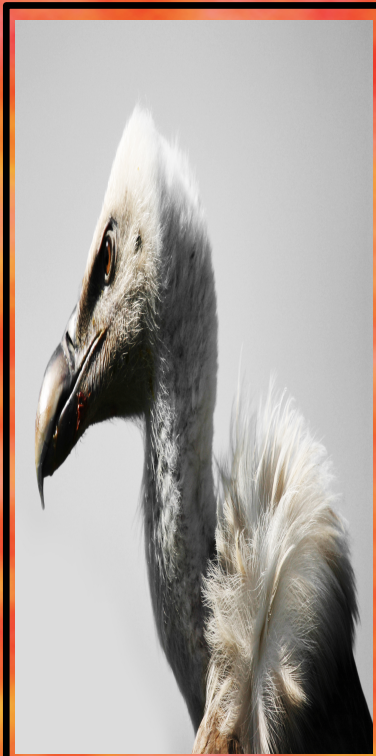
Write two inequalities for 21 and -6

## PROBLEM 4

What is the difference between 21 and -6

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