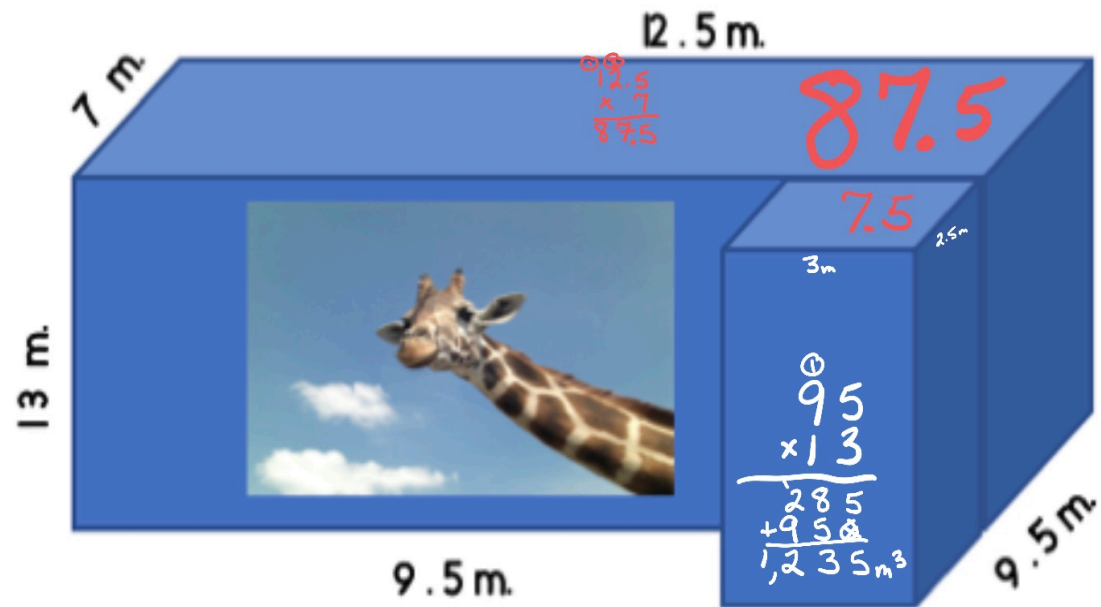FUN GEOMETRY
BOOK 3
ANIMAL PRISMS

☐ Each Problem has its own Video Tutorial!

☐ Students solve "real world" area problems!

☐ Warning – My problems are more fun than real.

12.5 m.

7 m.

87.5

7.5

3m

2.5m

13 m.

9.5 m.

9.5 m.

95
×13
285
+950
1,235 m³

$V = lwh$
$V = Ah$
$V = 95 \times 13$
$V = 1,235 m^3$

$1,235 m^3$

ANIMAL PRISMS

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.

Alan Clintock is an animal collector. He has trapped Geraldine the Day Dreaming Giraffe. He wants to keep her in the irregular prism below. You are her only hope of escape.   Solve for the volume of her prism and Alan Clintock will have to release Geraldine the Day Dreaming Giraffe back to her animal reserve.

12 . 5 m.

7 m.

13 m.

Photo by
Katharina
Hammes

9 . 5 m.

9 . 5 m.
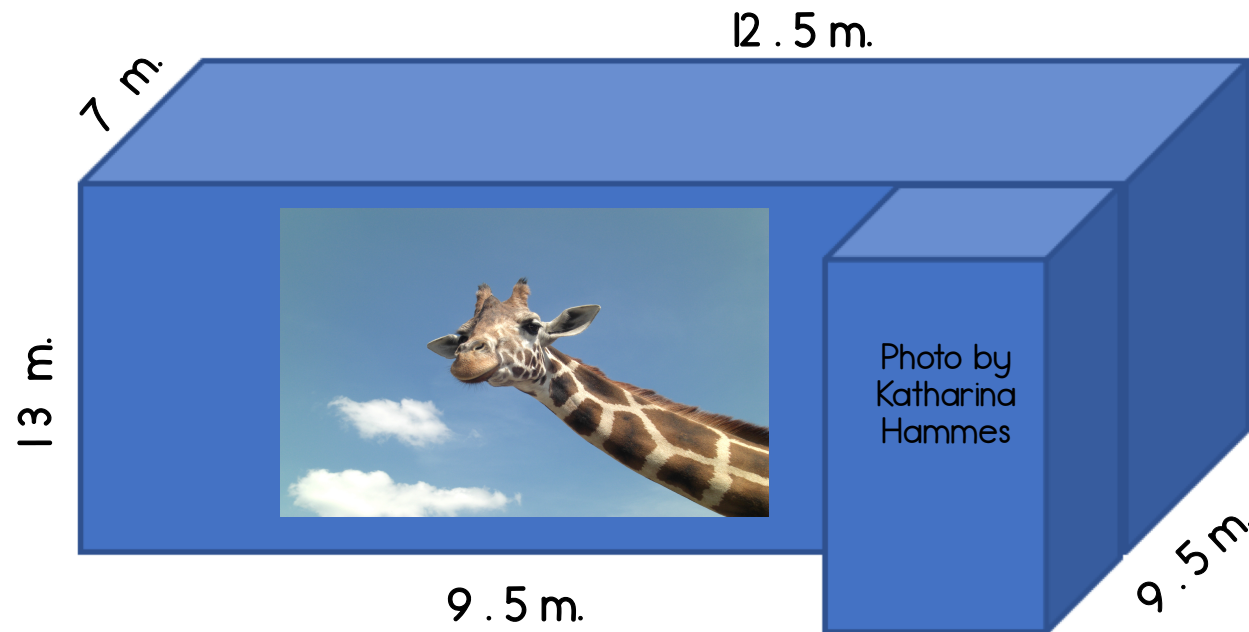
This is a Watch Me Problem. Click Here to watch & then copy this problem.

Horas the Hoarder loves monkeys. Once he catches an animal, he never lets them go. He caught Millie Monkey last week and trapped her within this trapezoidal prism. Millie Monkey begged for Horas to let her go, but he just shook his head. Now, it's up to you. Solve for the volume of Millie Monkey's trap, and Horas the Hoarder will have to return Millie to her family.

Base 2 = 14.5 m.

26 m.

Photo by
Jeroen Van Langenhove

Base 1 = 19.5 m.

7.5 m.
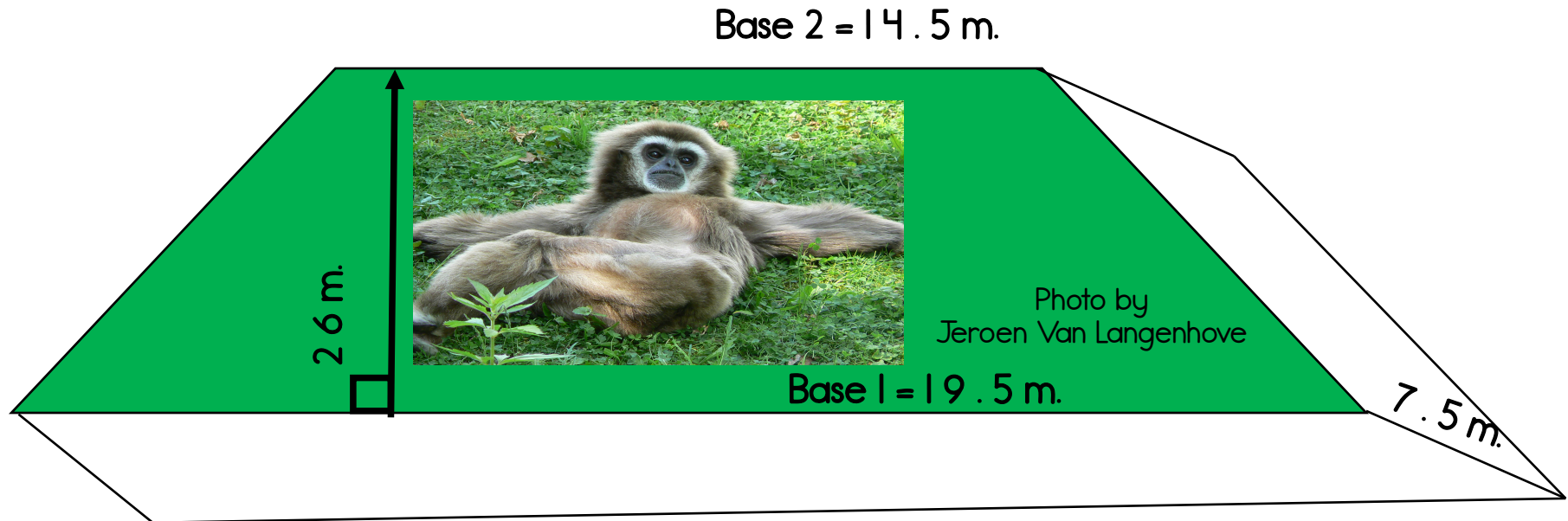
This is a Work with Me Problem. Click Here to watch & copy this problem.

Olivia the Irate Ostrich

Olivia the Irate Ostrich is fuming mad. Not only has she been taken from her home and locked within this irregular prism, but she cannot get to her chicks. Olivia's chicks are in the smaller section of the irregular prism, and she is far too tall to visit them. You are her only hope of escape. Solve for the volume of Olivia's trap and she and her chicks will be returned to their home.
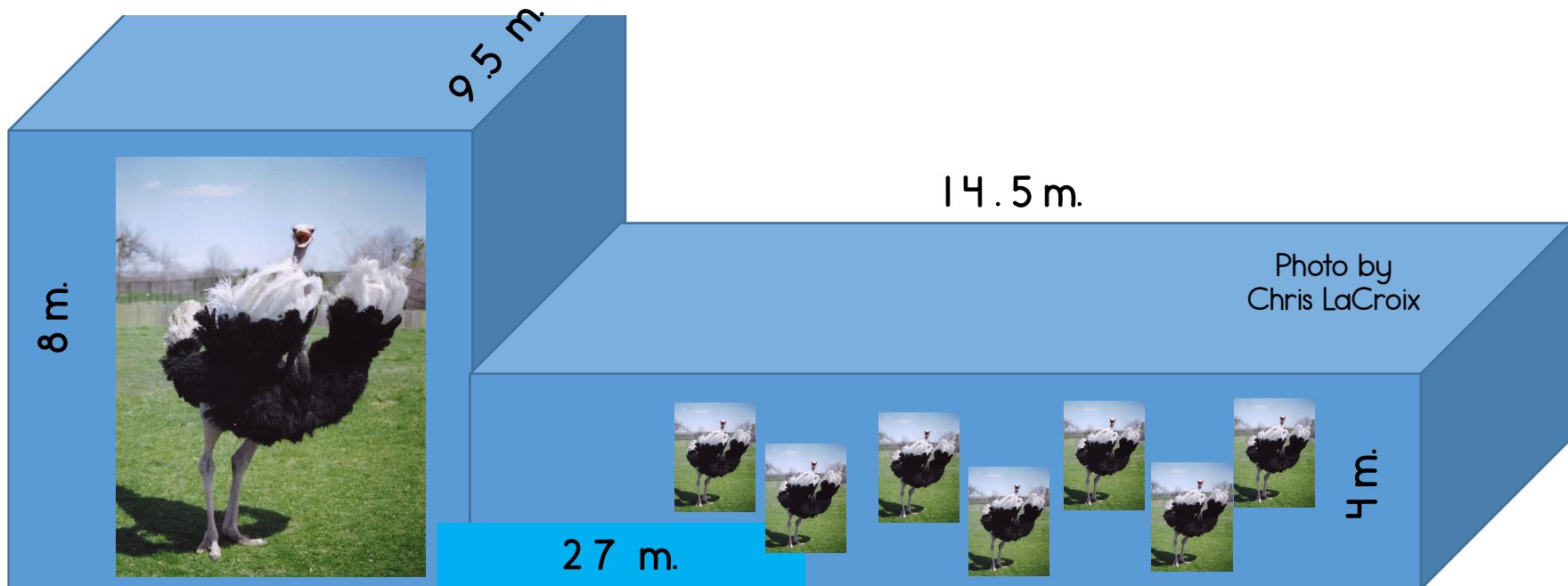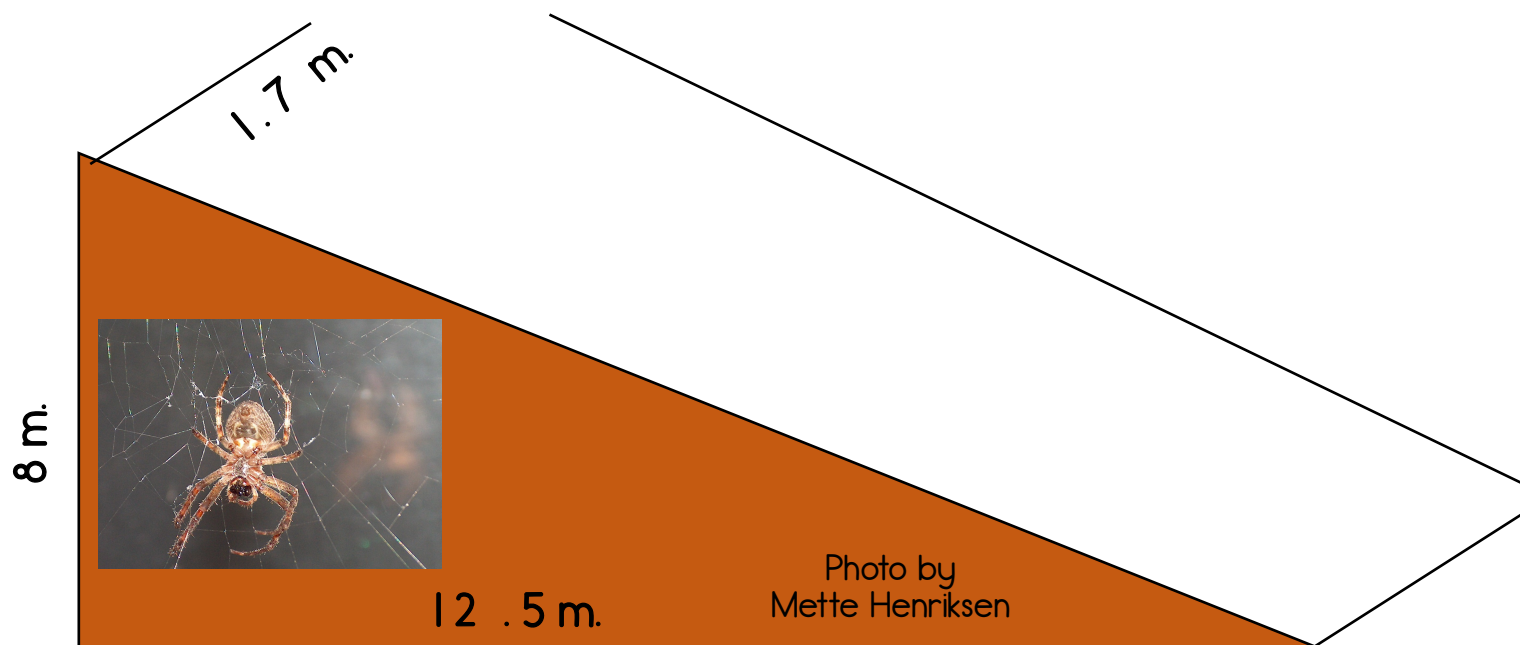
9.5 m.

14.5 m.

8 m.

Photo by
Chris LaCroix

4 m.

27 m.

This is an On Your Own Problem. Complete the problem. Then Click Here!

Spencer Spindelli is a collector of spiders. He loves the way they spin their webs. He has trapped Athena Arachnid within this triangular prism. Each day, Athena creates a new web. And each night, Spencer destroys it. Athena wants to get back to the forest where she belongs. Only you can help. Solve for the volume of Athena's triangular trap, and Spencer Spindelli will have to return Athena to her forest home.

1.7 m.

8 m.

12 .5 m.

Photo by
Mette Henriksen

This is an On Your Own Problem. Complete the problem. Then Click Here!

Ezequiel needed a serpent to complete his animal exhibit. He found Salina the Slithering Snake and decided that she was the prefect serpent for his exhibit. Ezequiel has trapped Salina within the irregular prism below. She is his number one attraction, so Ezequiel does not want to let her go. You are her only hope of escape. Solve for the volume of this trap and Ezequiel will be forced to release Salina the Slithering Snake to the rain forest.
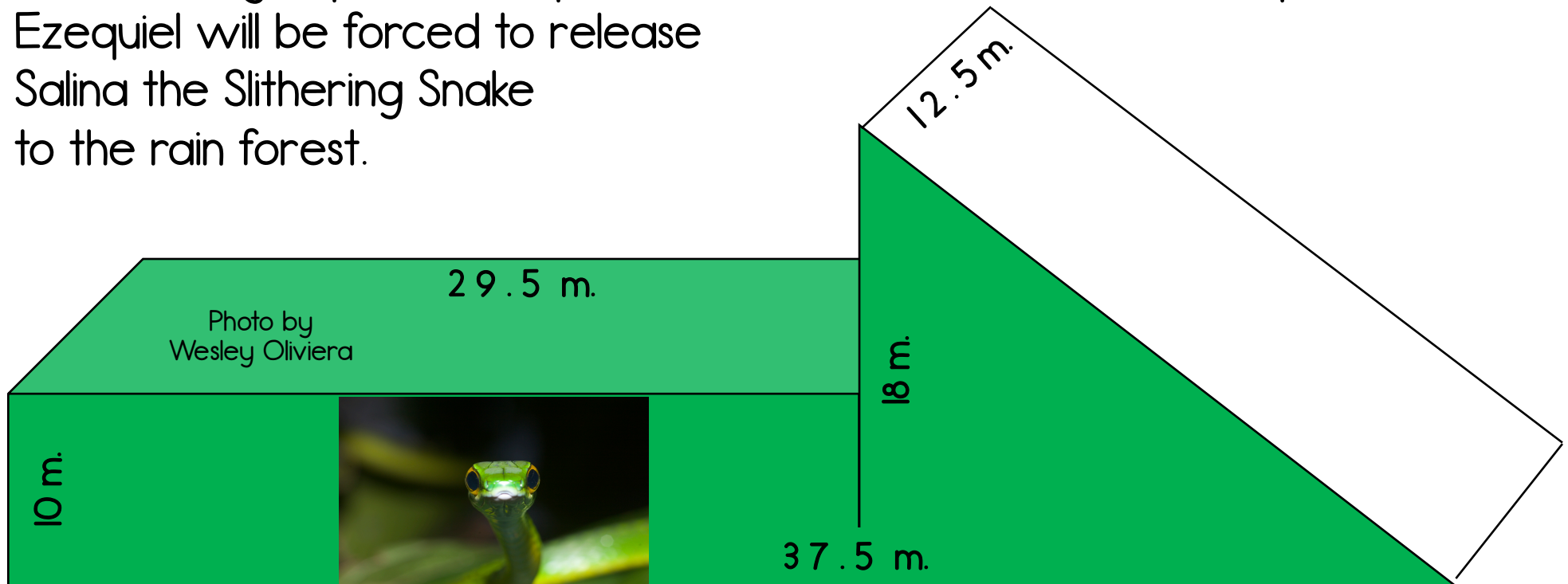
12.5 m.

29.5 m.

Photo by
Wesley Oliviera

18 m.

10 m.

37.5 m.

This is an On Your Own Problem. Complete the problem. Then Click Here!

Horas the Hoarder is at it again. This time he has trapped Whitley and Wendolyn Wolf. The sister wolves are best of friends, but Horas has trapped them in this tiny prism. Now, the sisters fight all day long.   Only you can save Whitley and Wendolyn from a life of brawling. Solve for the volume of this trapezoidal prism, and Horas the Hoarder will have to return Whitley and Wendolyn back to the home in Yellowstone National Park.

Base 2 = 8 . 3 m.

Photo by Christer C.

11 m.

Base 1 = 21 . 7 m.

3 . 5 m.
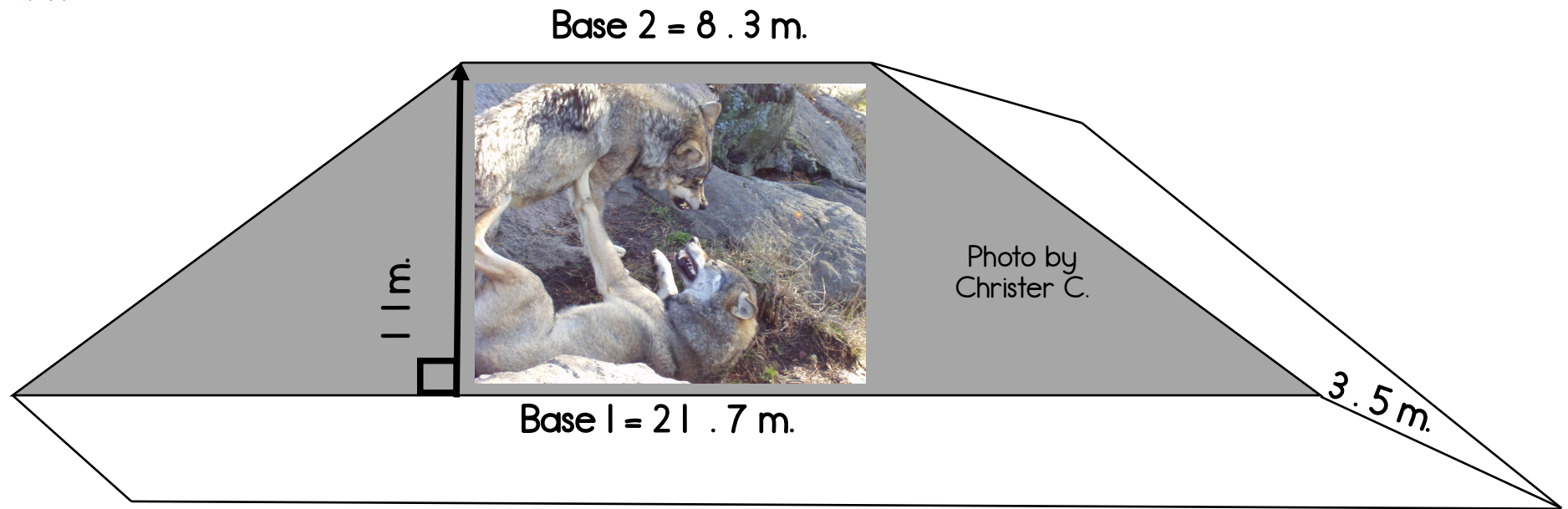
This is an On Your Own Problem. Complete the problem. Then Click Here!

Whitney the Wondering Polar Bear wondered too close to Alan Clintock the animal collector. Now she is trapped within this irregular prism. Whitney wants to get back to her glacial home. You are her only hope of escape. Solve for the volume of this trap and Alan Clintock will be force to returned Whitney to her Alaskan home.
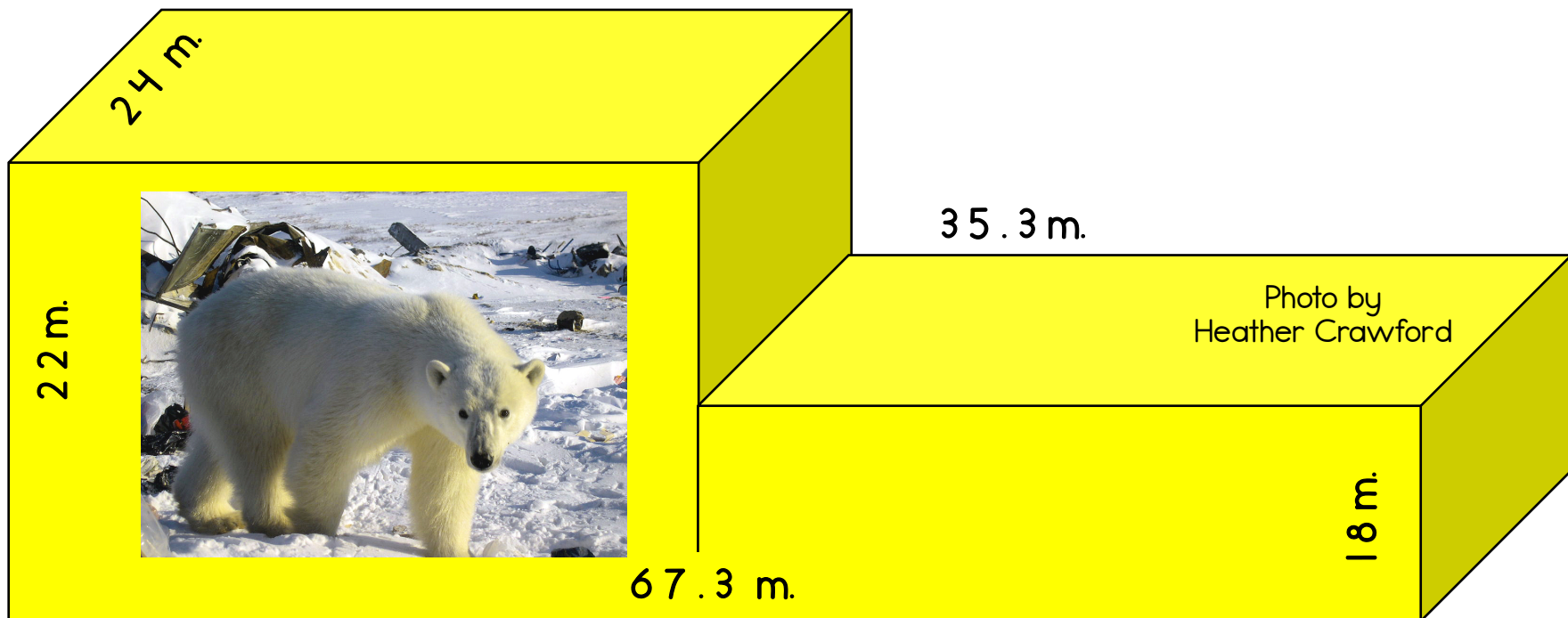
24 m.

22 m.

35.3 m.

Photo by
Heather Crawford

18 m.

67.3 m.

This is an On Your Own Problem. Complete the problem. Then Click Here!

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Malevolent Myrdal the Merciless Microbiologist has trapped Shelby and Sherman Seahorse. Shelby is about to give birth to 2,000 baby seahorses. She wants to be back in the Pacific Ocean off the coast of Mexico, but Malevolent Myrdal will not let her and Sherman go. Only you can help. Solve for the volume of this triangular prism, and Malevolent Myrdal will have to return Shelby and Sherman Seahorse to their oceanic home.
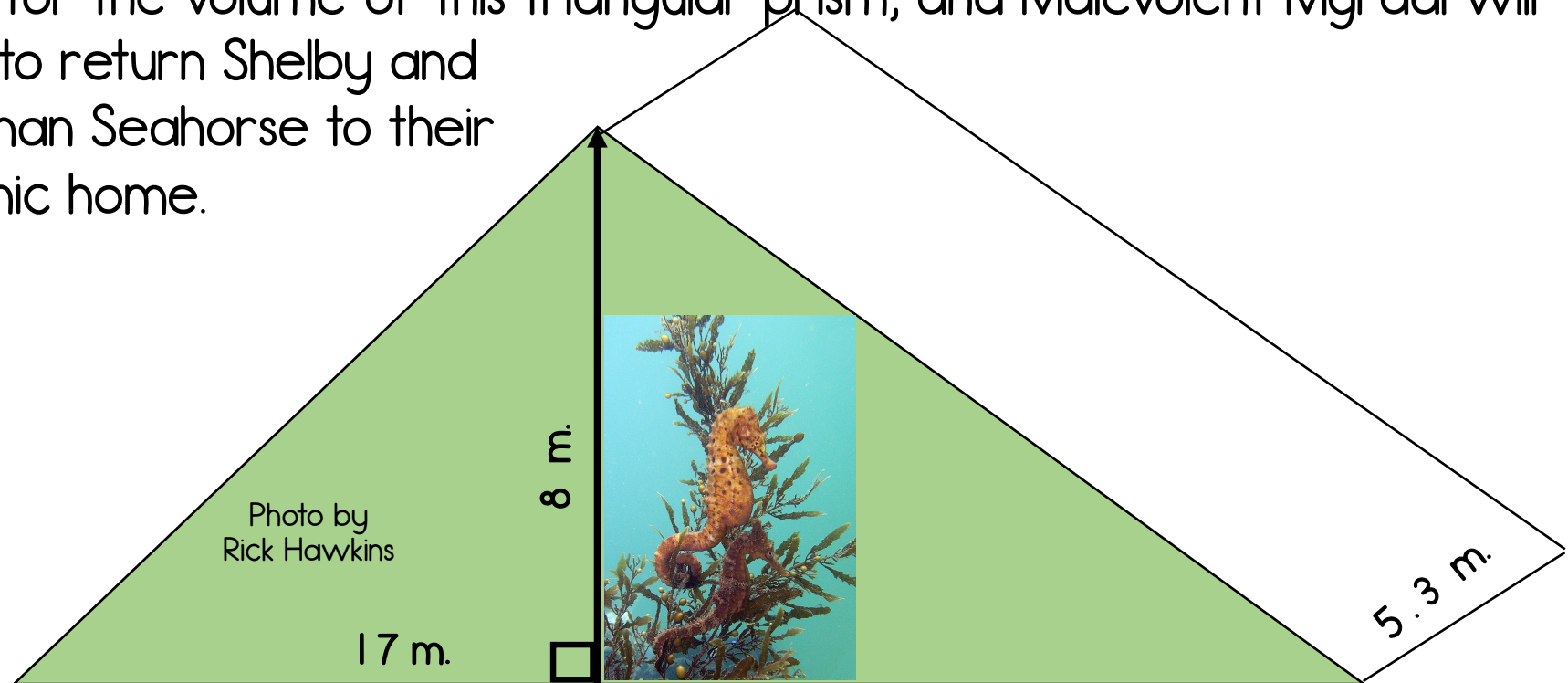
Photo by
Rick Hawkins

8 m.

17 m.

5.3 m.

This is an On Your Own Problem. Complete the problem. Then Click Here!

Hide and Go Seek Zeek tried to hide, but Ezequiel found him. Ezequiel is always on the lookout for interesting creatures to add to his animal exhibit. He is sure that Zeek will bring thousands of dollars to the exhibit. After all, who doesn't want to see a panda playing hide and go seek? Ezequiel has trapped Zeek within the irregular prism below. Solve for the volume of this trap, and Ezequiel will be forced to release Hide & Go Seek Zeek back to bamboo forests of China.

23 m.

30 m.

Photo by
Kevin Lafferty

20 m.

14.7 m.

47.5 m.
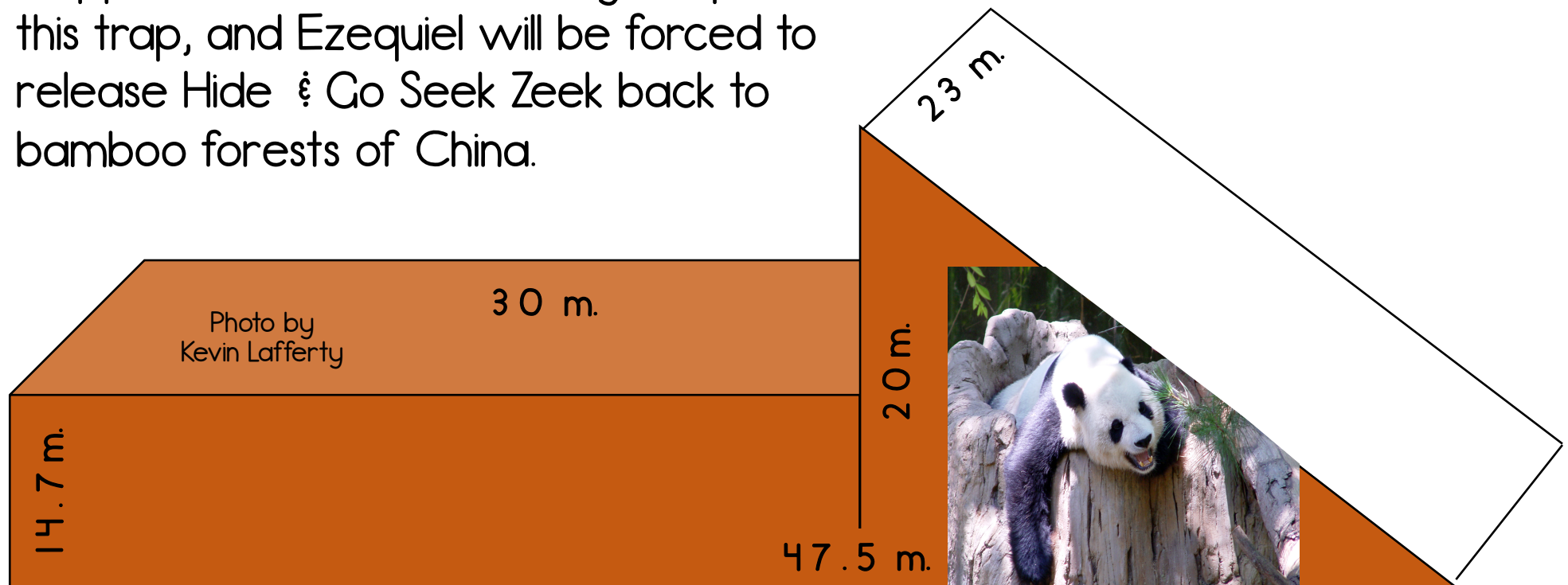
This is an **On Your Own Problem.** Complete the problem. Then Click Here!

Alan Clintock, Horas the Hoarder, and Malevolent Myrdal have teamed up to create a battle prism. They've trapped Amos the Pumping Iron Ant. They plan on releasing ten wasps into the irregular prism, so they can watch Amos battle for his life. Only you can stop the madness. Solve for the volume of the battle prism and these three wicked people will be forced to release Amos and the wasps.

4.3 m.

4.5 m.

4.4 m.

2.6 m.

4.3 m.

4 m.

Photo by
Andrey Pavlov

10 m.
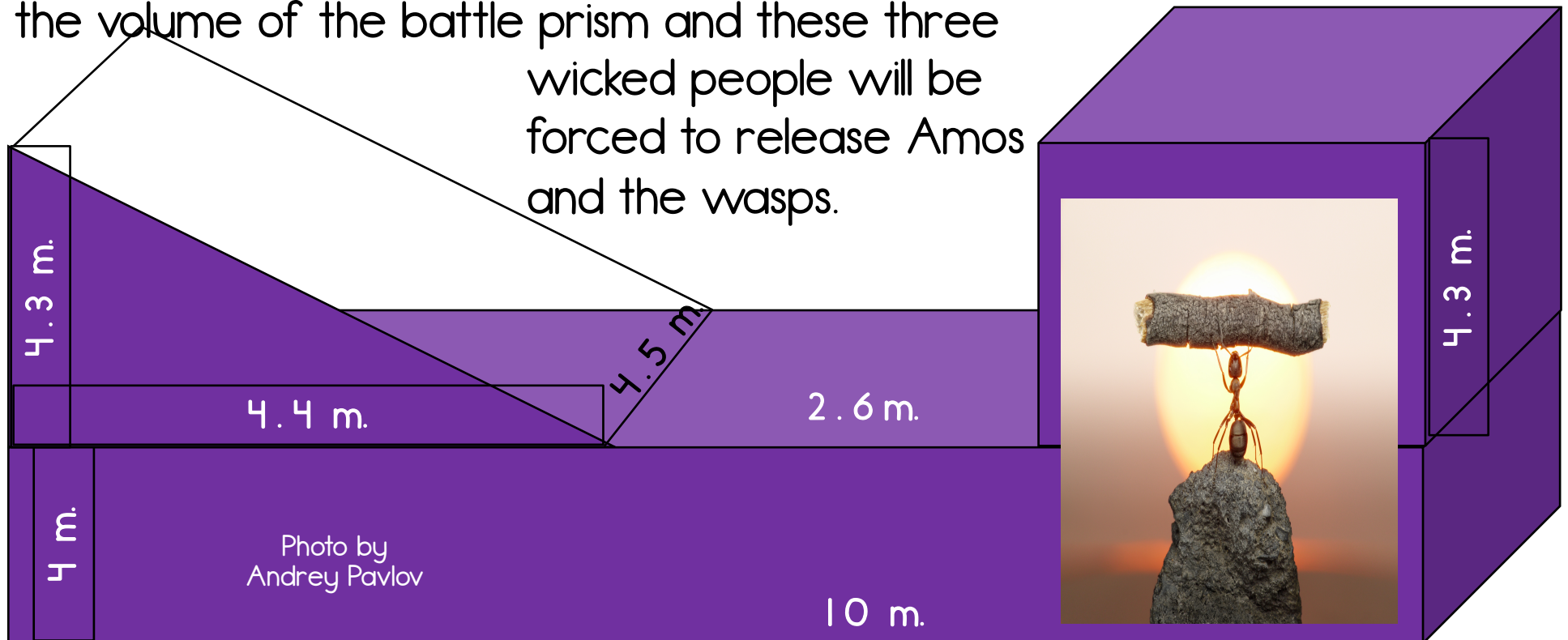
This is an On Your Own Problem. Complete the problem. Then Click Here!

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