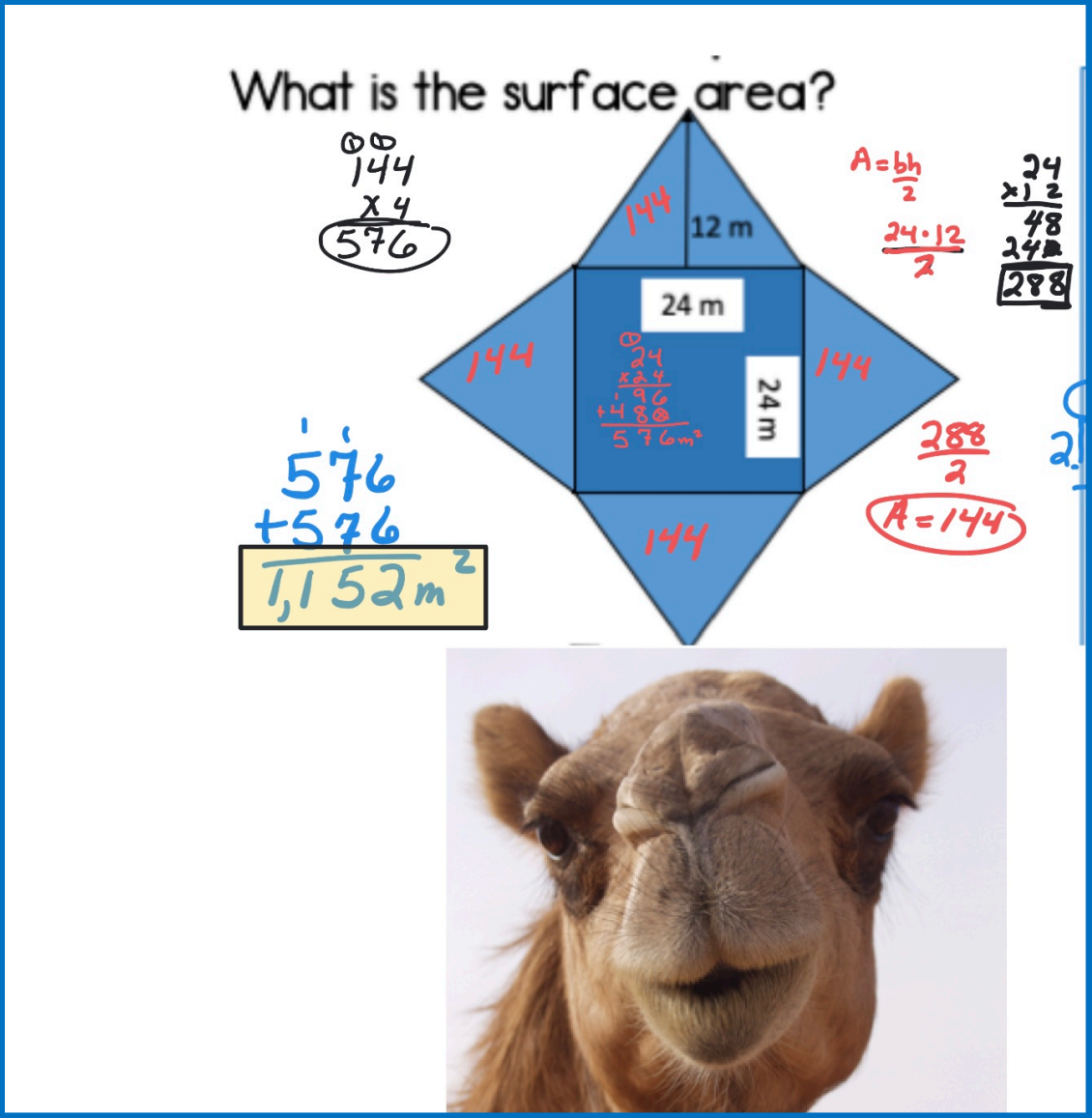
Fun Geometry

Book 2

Animal Nets

- Each Problem has its own Video Tutorial!
- Students solve "real world" area problems!
- Warning – My problems are more fun than real.



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Animal Nets

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.

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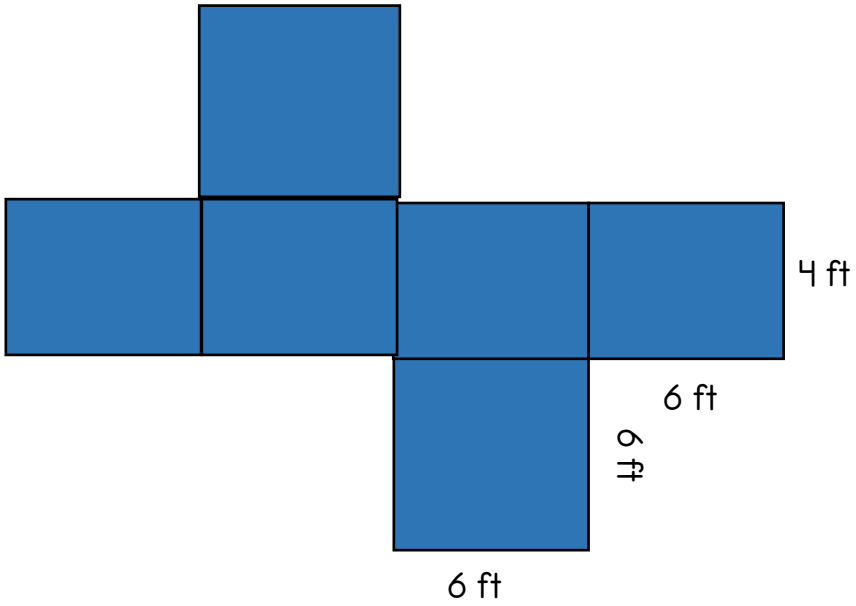
Terrance the Ticklish Mule

Book 2

Challenge 1

Terrance the Ticklish Mule is having a new barn built for his girlfriend. He wants to impress her with pictures of horses, cows, and sheep painted on the walls, grass painted on the floor, and clouds painted on the ceiling. In order to purchase enough paint, Terrance needs to know the surface area of the barn.

The net below is a representation of the barn. What is the surface area?



This is a

Watch Me Problem!

Click Here to Watch & then copy this problem.

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Photo by
Julia Freeman-Woolpert

Claudia Camel

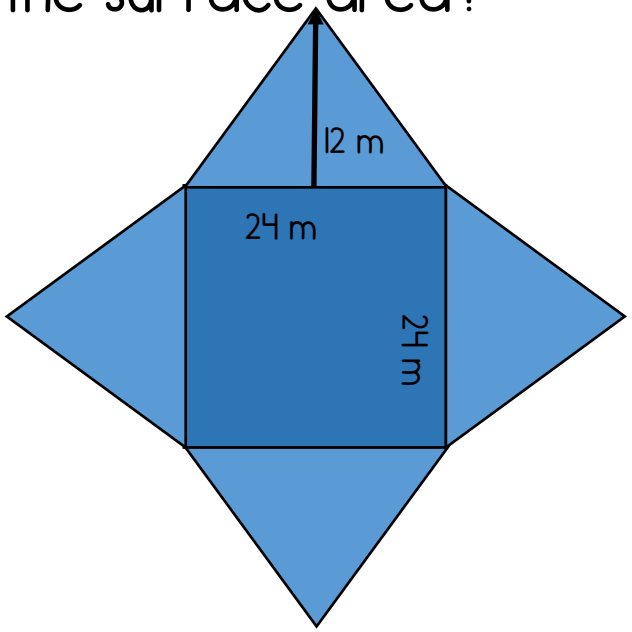
Book 2

Challenge 2

Claudia Camel is an archeologist. She has been researching the camels of ancient Egypt and wants to create a museum in honor of all the camels throughout history. The museum will be in the form of a pyramid. Claudia will have tapestries covering the floor and walls. She needs to know how many square meters of tapestries to purchase.

The net below is a representation of her museum.

What is the surface area?



This is a
Work With Me Problem!
Click Here to Watch & Copy this problem.

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Photo by
Peter Caulfield

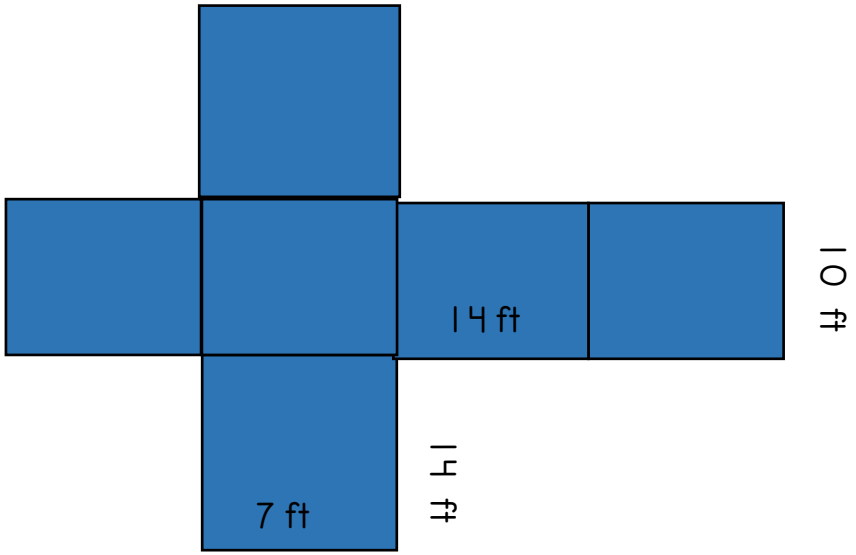
Ginny the Love-Sick Giraffe

Book 2

Challenge 3

Ginny the Love-Sick Giraffe needs a new boyfriend. Her last one got away, so she has designed a three dimensional "Love Trap". Ginny wants to cover the ceiling, floor, and wall with red roses. She believe that when a boy giraffe wonders into her trap, he will breath in the romantic flowers and fall deeply in love with her. She needs to know many flowers to buy. The net below is a representation of her love trap.

What is the surface area?



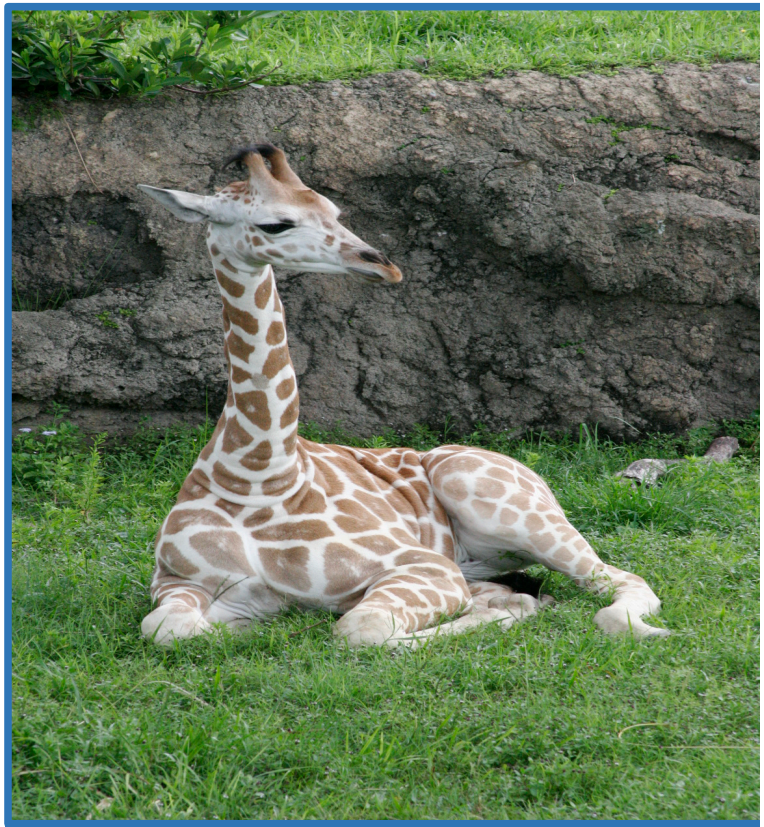


Photo by TK9805

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Byanca Butterfly

Book 2

Challenge 4

Byanca Butterfly has designed a green house that will keep flowers in bloom all year long. Her plan is to put a huge mirror on the floor, and have the wall made out of glass. In order to purchase enough materials, Byanca needs to know the surface area of her green house.
The net below is a representation of her green house.
What is the surface area?

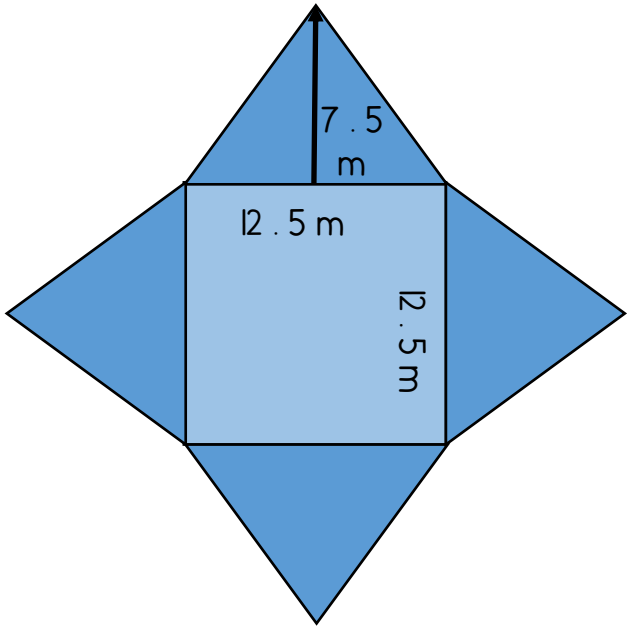

Photo by
Claudia Meyer

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Randy & Rolonda Rhinoceros

Book 2

Challenge 5

Randy & Rolonda Rhinoceros are building a drinking trough, so they will have cool water to drink during the dry season. Randy & Rolonda will construct the bottom and walls of the trough out of metal, and the top out of a leafy mess that will let water through, but not let the sun evaporate it. They needs to know much metal and leafy mesh to buy.

The net below is a representation of their water trough.

What is the surface area?

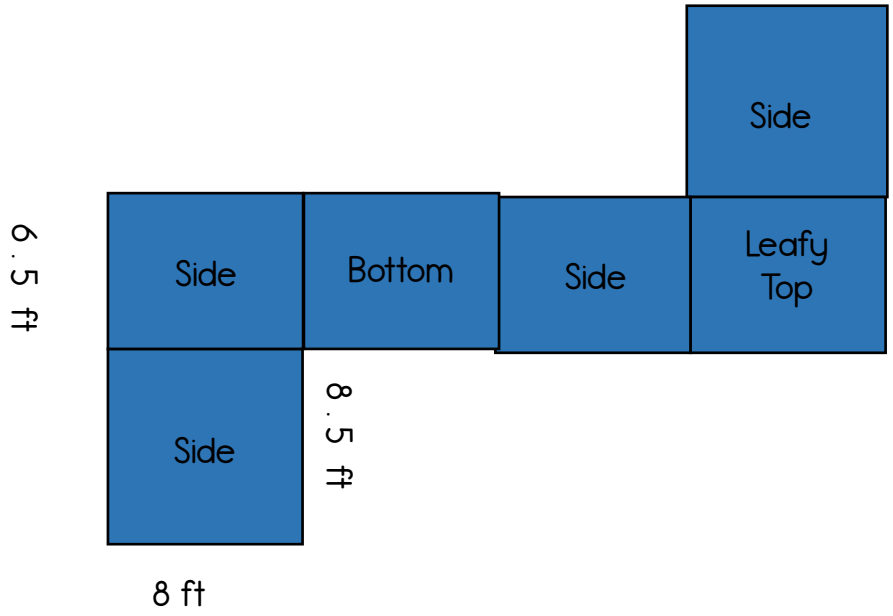

Photo by
Henrik Groth-Andersen

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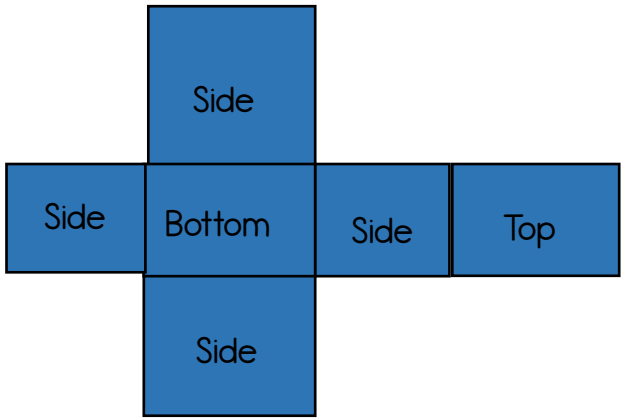
Captain Bartholomew Eagan the Bald Eagle

Book 2 — Challenge 6

Captain Bartholomew Eagan the Bald Eagle is tired of scanning, swooping, and clutching his dinner. He is a seasoned veteran and feels that he should have the easy life. Captain Bartholomew has designed a fish trap, so that he no longer has to hunt. The fish trap will be made of metal mesh that allows the fish to swim in, but not out. He can't wait to use his trap, but he needs your help to discover how much metal mesh to buy.

Create a net like the one below and solve for the surface area of Captain Bartholomew's fish trap.



Captain Bartholomew's fish trap

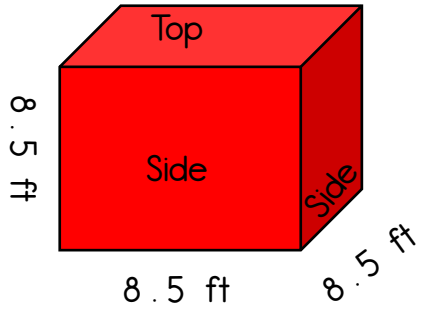


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Photo by Owe Sleman

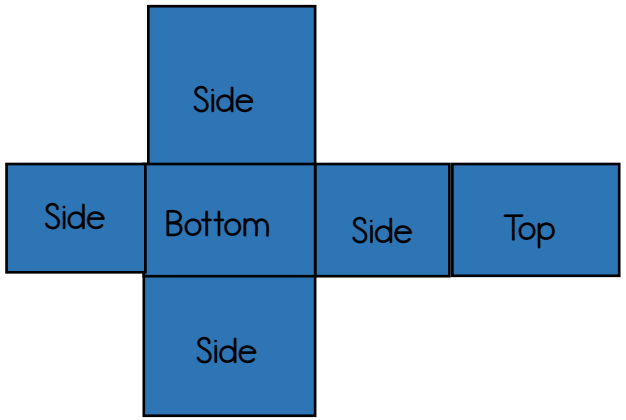
Vladimir the Disco Dancing Vulture

Book 2

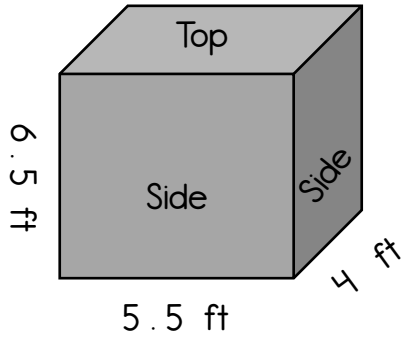
Challenge 7

Vladimir the Disco Dancing Vulture is about to open his new dance studio. The dance studio will have paintings of all the greatest bands doing their best dance moves. The paintings will seem to move to the music as the disco ball sends light spinning around the entire dance studio. Vladimir is excited to break out his own dance moves, but must complete the paintings before he can open the studio. He needs your help to figure out how much paint to buy.

Create a net like the one below and solve for the surface area of Vladimir the Dancing Vulture's Disco Dance Studio.



Vladimir's Disco Dance Studio



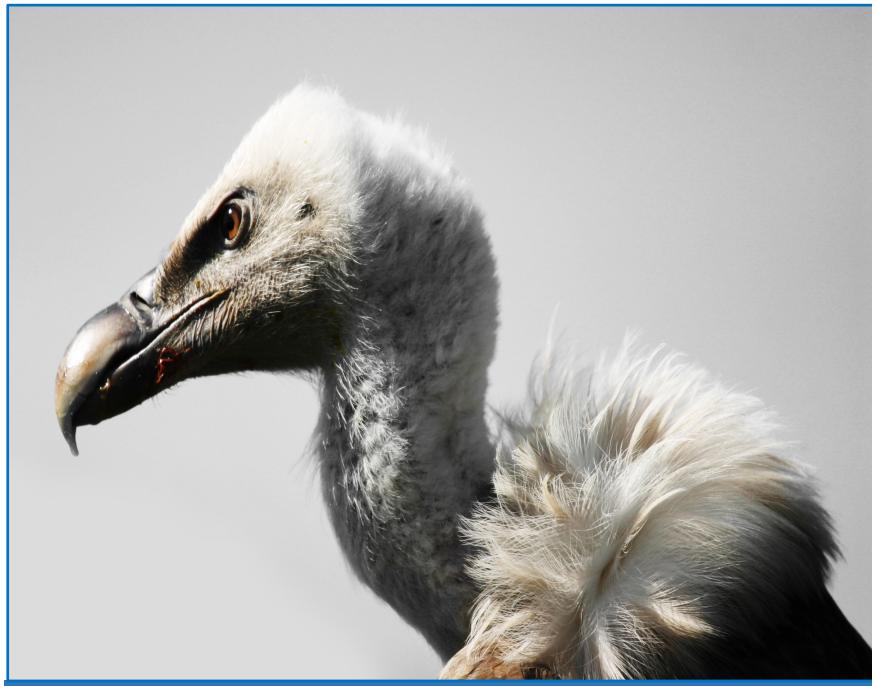


Photo by Martin Walls

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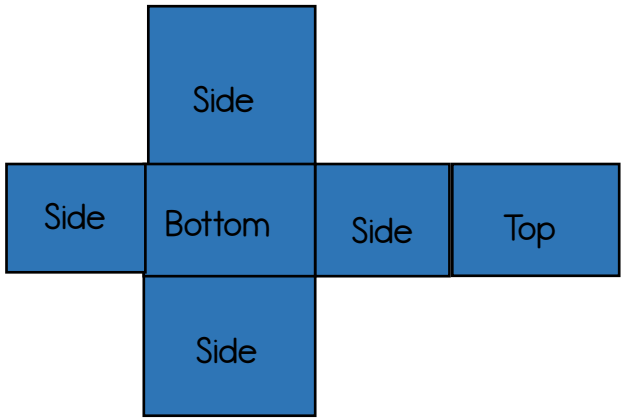
Jack Stinger

Book 2

Challenge 8

Jack Stinger loves nothing more than swooping in and stinging unsuspecting children who play too close to his nest. In the past 6 months he has stung over 437 boys and girls. Maybelle, the bee keeper, wants to keep Jack locked up until after 2:00 in the afternoon, when children are no longer playing near Jack's nest. Maybelle wants to build a lock box that will give Jack plenty of room to buzz around, but also keep him lock up until the children are gone. Maybelle needs to know how much screen to buy. Create a net like the one below and solve for the surface area of Jack Stinger's Lock Box.



Jack Stinger's Lock Box

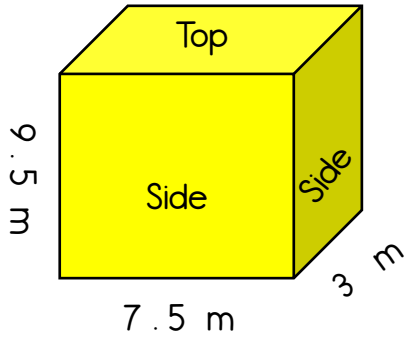


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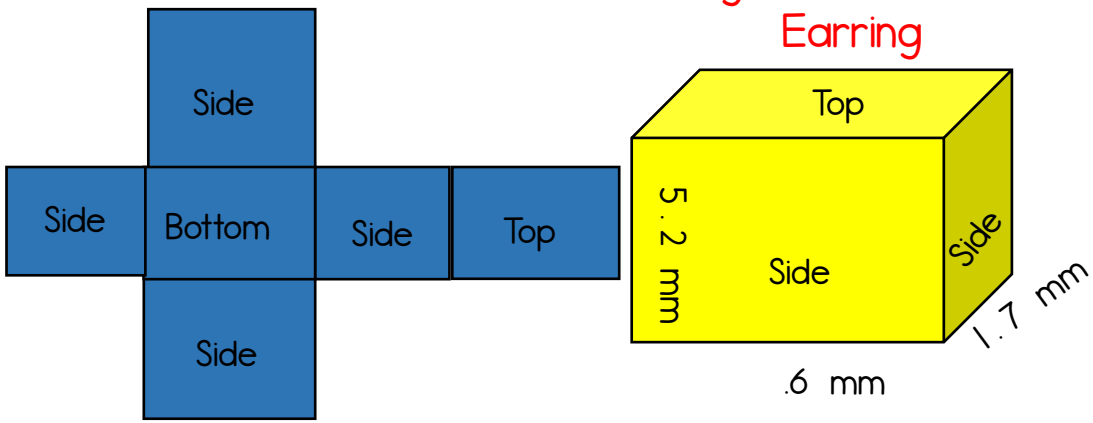
Photo by
Terry Crouch

Wally Water Buffalo

Book 2

Challenge 9

Wally Water Buffalo is not a happy bovine. He thinks his ears are his best attribute, but no one see them below his huge horns. Wally has designed a rectangular prism earring that will draw attention to his cute little ears. He wants the earrings to be covered in gold dust, so that they will sparkle in the sunlight. Wally needs to know how much gold dust to purchase in order to cover all six sides of each earring. Only you can make Wally Water buffalo smile again. Solve for the amount of gold dust Wally needs for each earring. Create a net like the one below and solve for the surface area of Wally Water Buffalo's earring.



Wally Water Buffalo's Earring

Photo by Jahall

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Leon the Lion

Book 2

Challenge 10

Leon the Lion is a proud father of 25 cubs. Each time one of his offspring looses a fang, Leon tells them to place it under their pillow. At night, he sneaks in and takes the tooth, replacing it with a small piece of gazelle meet, which is more precious that gold to a lion cub. Leon wants to keep all his cubs' teeth in a special box. He wants the box to be made of pure silver. Unfortunately, Leon is not very good at math. He needs your help! How many square inches of silver does Leon need to make his tooth box? Create a net like the one below and solve for the surface area of Leon the Lion's Tooth Box.

Leon the Lion's Tooth Box

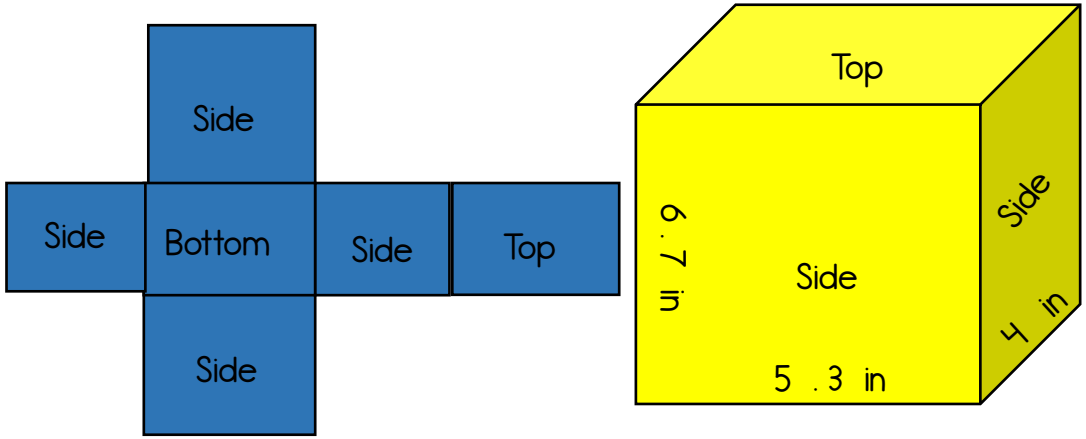

Photo by
Dhany Syamsuddin

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