



TRUTH OR LIE?

STEM Card Game

Based on the book series by Ammi-Joan Paquette and Laurie Ann Thompson (Walden Pond Press):

TWO TRUTHS AND A LIE

Best Users: Elementary STEM Coordinators, Classroom Teachers, Library Media Specialists, Public Children’s Librarians, STEM-engaged Parents and Homeschoolers

Target Audience: 8-12 Years, 3rd-6th Grade

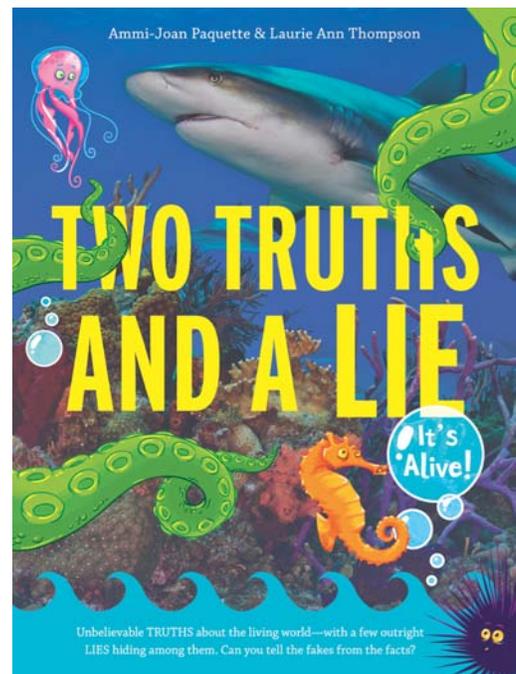
Educators & Librarians,

The children’s book **TWO TRUTHS AND A LIE: IT’S ALIVE!** by Ammi-Joan Paquette and Laurie Ann Thompson (Walden Pond Press/HarperCollins) is a sneaky approach to STEM. It offers just what the title says, two non-fiction pieces on a scientific topic and one convincing fictional piece on the same theme. Readers are asked to find the lie through their own knowledge, intuition, and RESEARCH.

“When it comes to information—and life, really—asking good questions is a superpower.”

—TWO TRUTHS AND A LIE: IT’S ALIVE!

Award-winning STEM elementary school coordinator Suzanne Costner felt that such a playful book could actually be played in the form of a game. As a current library media specialist and former classroom teacher, she has designed a game for educators and librarians to work together to reinforce STEM inquiry and research.



First book in series!

Illustrations © Lisa K. Weber



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Educators & Librarians (cont.)

The most compelling part of the game is that students and readers will create their own game cards in Round 2. With each new play of the game, in a single semester or across the years, the TRUTH OR LIE? card deck can grow based on your readers' research!

Have a look at the Player Game Rules and see if this game will work in your classroom, library, or both. Printable game cards have been created by the children's book engagement folks at Curious City (CuriousCityDPW.com). The game cards can work one-sided, but colorful game card fronts can also be printed double-sided or affixed to the backs.

The topics on the game cards were drawn from some of the sidebar inquires in **TWO TRUTHS AND A LIE: IT'S ALIVE!**. A reader does not have to have read the book to play the game, nor will the game be spoiled for those who have read it.

Additional Resources

You can visit CuriousCityDPW.com and search for "Two Truths" to find other ways to engage with this book in a classroom or library. Also on that page are the suggested rationales and curriculum alignments.

Please contact Curious City at curiouscitybooks@gmail.com if you have feedback or ideas to improve the game.

Suzanne Costner

is a library media specialist and STEM coordinator in an elementary school. Before finding her perfect home in the library, she taught in other classrooms for 20 years. She loves everything about children's and young adult literature, often reviewing books on her blog or for *School Library Journal*. Suzanne is also a science geek who enjoys building rockets and programming robots with her students. She has won many awards for the STEM program, and in 2017 she was named Tech Innovator Teacher of the Year for her school district and the C.A.P. National Aerospace Education Teacher of the Year.



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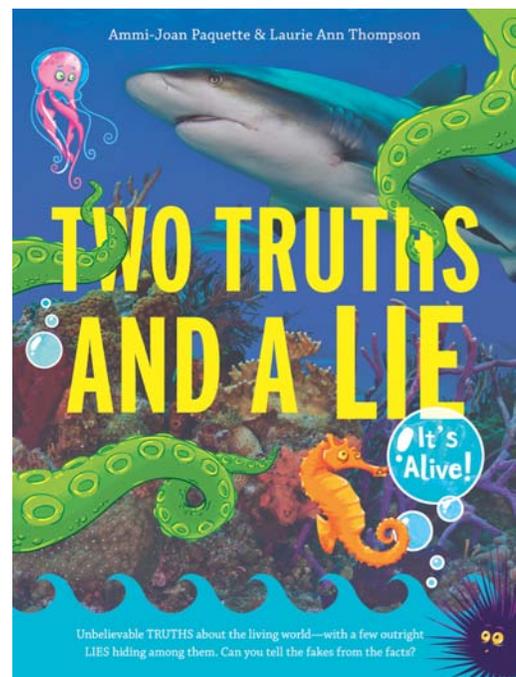
Number of Players: 2

Welcome, STEM Investigators!

This game was created after reading the book **TWO TRUTHS AND A LIE: IT'S ALIVE!** by Ammi-Joan Paquette and Laurie Ann Thompson (Walden Pond Press). The book is sneaky. It covers many different science topics. But some of those topics are lies!

“All around us, everywhere in the world, there are lies. But there are truths, too. And sorting out one from the other is a really important—and interesting—part of life.”

—**TWO TRUTHS AND A LIE: IT'S ALIVE!**





TRUTH OR LIE?

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Round 1: Truth or Lie?

In this game, you will be read a statement, a sentence about a STEM topic. You will have to decide whether the sentence is a Truth or a Lie.

“But which is which? Ah, that’s where you come in. Even the lies might have a kernel of buried truth. And some of the truths are unbelievable...your mission is to separate the two.” —TWO TRUTHS AND A LIE: IT’S ALIVE!

Instructions

- 1) Set the cards face down between the two players.
- 2) Player 1 draws a card, reads the statement, and asks Player 2, "Truth or Lie?"
- 3) If Player 2 gets the answer right, they are given the card. If Player 2 gets the answer wrong, Player 1 keeps the card.
- 4) Continue play until all the cards have been used or until the play period has ended.
- 5) The player with the most cards at the end of the game is the winner of Round 1.

Round 2: Research!

From the cards you have collected in the game, you will choose a topic that most interests you and do what the greatest scientists do—RESEARCH!

“Dig around online (safely, of course!). When it comes to information—and life, really—asking good questions is a superpower.”

—TWO TRUTHS AND A LIE: IT’S ALIVE!



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Round 2: Research! (cont.)

Instructions

- 1) Each player looks at the cards they ended up with and chooses a card/topic to research further.
- 2) Each player visits the card's listed URL sources and/or the library to research those topics. See your teacher or librarian about the parameters of your research.
- 3) Each player is given 3 blank game cards.
- 4) Each player comes up with two new truths and one new lie about the topics and writes each on an individual game card.
- 5) At the bottom of each card, the players check off whether the statement is a truth or a lie. Additionally, they should list the source of the information. See your teacher or librarian about how many sources to list and how they should be listed.

Round 3: Spot the Lie!

This is where your research becomes part of the game! You will make your own game cards with two truths about your topic and one lie. See in you can stump the other player with your STEM superpowers!

Instructions

- 1) Player 1 (the winner of Round 1) reads their three cards aloud (up to three times) to Player 2. Player 2 must pick out the lie. If Player 2 is correct, she wins Round 3.
- 2) Player 2 reads their three cards aloud (up to three times) to Player 1. Player 1 must pick out the lie. If Player 1 is correct, the game is tied.

The player-created cards become part of a larger deck to be shared and played by other classmates. The deck and variety of the game grows with each new play!



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Illustrations © Lisa K. Weber



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TRUTH OR LIE?



Bananas are not simple fruits.
They are berries.

TRUTH LIE SOURCE: bit.ly/ttaal1t
stanford.io/ttaal2t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Peanuts are not nuts.

TRUTH LIE SOURCE: bit.ly/ttaal3t
read.bi/ttaal4t

Share after the guess: Peanuts are legumes.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Carrots were not originally orange.
They were purple.

TRUTH LIE SOURCE: bit.ly/ttaal7t
bit.ly/ttaal8t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Spinach is not a vegetable.
It is a fungus.

TRUTH LIE SOURCE: bit.ly/ttaal9t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Dinosaur Food is a plant name,
not just a Jurassic meal.

TRUTH LIE SOURCE: bit.ly/ttaal11t
bit.ly/ttaal12t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Sneezewort is a growth on the inside of your nose
sometimes contracted when a patient has the flu.

TRUTH LIE SOURCE: bit.ly/ttaal13t
bit.ly/ttaal14t

Share after the guess: Sneezewort is the name of a plant.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



The Venomous Tentacula is a
South American venomous spider.

TRUTH LIE SOURCE: bit.ly/ttaal15t
bit.ly/ttaal16t

Share after the guess: It is actually a
fictional plant in the Harry Potter series.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



In Australia, Kangaroo Paw is a skin disorder that
creates rough patches on the palms of your hands.

TRUTH LIE SOURCE: bit.ly/ttaal17t
bit.ly/ttaal18t

Share after the guess: Kangaroo Paw is the name of a plant.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Devil's walkingstick is a plant with viciously sharp, spiny stems.

TRUTH LIE SOURCE: bit.ly/ttaal19t
bit.ly/ttaal20t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Monkey Puzzle Trees have been around since the time of the dinosaurs.

TRUTH LIE SOURCE: bit.ly/ttaal21t
bit.ly/ttaal22t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Stinking Christopher is the name of a rock band from England.

TRUTH LIE SOURCE: bit.ly/ttaal23t
bit.ly/ttaal24t

Share after the guess: Stinking Christopher is the name of a plant, but there should be a band!

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Scientists refer to a group of snakes as a “hissing of snakes.”

TRUTH LIE SOURCE: bit.ly/ttaal33t
bit.ly/ttaal33t

Share after the guess: A group of snakes is called a den, nest, pit, bed, or knot, but not a hissing.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Oceanographers refer to a grouping of squid as a “squirt of squid.”

TRUTH LIE SOURCE: bit.ly/ttaal32t
bit.ly/ttaal30t

Share after the guess: The collective noun for squid is a “squad.”

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



The collective noun for a grouping of crows is a “murder of crows.”

TRUTH LIE SOURCE: bit.ly/ttaal31t
bit.ly/ttaal32t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



The collective noun for a group of zebras is a “zoo of zebras.”

TRUTH LIE SOURCE: bit.ly/ttaal33t
bit.ly/ttaal32t

Share after the guess: A zeal of zebras is the proper collective noun.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Because magpies are known to steal from other birds, a group of the birds is called a “gang.”

TRUTH LIE SOURCE: bit.ly/ttaal31t
bit.ly/ttaal33t

Share after the guess: A group of magpies is actually called a “gulp.”

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



A Christmas tree worm is a parasite that causes needles to fall off of fir trees.

TRUTH LIE SOURCE: bit.ly/ttaal37t
bit.ly/ttaal38t

Share after the guess: A Christmas tree worm is a brightly colored ocean worm.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Pink See-through Fantasia is a special effect used in Disney animations.

TRUTH LIE SOURCE: bit.ly/ttaal39t
bit.ly/ttaal40t

Share after the guess: The Pink See-through Fantasia is a sea cucumber that emits light.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



The Layabout Lobster is a species of lobster found along the coast of Maine. Cold water temperatures keep them stationary and easy to catch.

TRUTH LIE SOURCE: bit.ly/ttaal41t
bit.ly/ttaal42t

Share after the guess: Lobsters are never easy to catch and Maine lobstermen work just as hard as other fishermen.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Vampire squid are not frightening at all. They are only 6 inches long.

TRUTH LIE SOURCE: bit.ly/ttaal43t
bit.ly/ttaal44t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



The leafy sea dragon has seaweed growing on its appendages.

TRUTH LIE SOURCE: on.natgeo.com/ttaal45t
bit.ly/ttaal46t

Share after the guess: Its appendages only look like seaweed and allow the creature to be camouflaged in seaweed and kelp.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



The gold-lace nudibranch is a rare flowering plant found in China and once prized by emperors.

TRUTH LIE SOURCE: bit.ly/ttaal47t
bit.ly/ttaal48t

Share after the guess: It is a sea mollusk found in the waters off of Hawaii.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



The Dumbo octopus has prominent ear-like fins.

TRUTH LIE SOURCE: bit.ly/ttaal49t
bit.ly/ttaal50t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Some octopuses have three hearts.

TRUTH LIE SOURCE: bit.ly/ttaal51t
bit.ly/ttaal52t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Turtles can breathe out of their butts.

TRUTH LIE SOURCE: bit.ly/ttaal53t
bit.ly/ttaal54t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Vultures sometimes eat too much to fly,
so they throw up.

TRUTH LIE SOURCE: bit.ly/ttaal55t
bit.ly/ttaal56t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Scorpions can survive being frozen
inside a block of ice.

TRUTH LIE SOURCE: bit.ly/ttaal57t
bit.ly/ttaal58t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Jellyfish poop through their mouths.

TRUTH LIE SOURCE: bit.ly/ttaal59t
bit.ly/ttaal60t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Giraffes give birth standing up, so newborn giraffes fall about 5 feet down to the ground.

TRUTH LIE SOURCE: bit.ly/ttaal61t
on-ajc.com/ttaal62t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Geckos don't have eyelids, so they clean their eyes by licking them.

TRUTH LIE SOURCE: bit.ly/ttaal63t
bit.ly/ttaal64t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Horses often throw up their food hours after eating, just so they can eat it again.

TRUTH LIE SOURCE: bit.ly/ttaal65t
bit.ly/ttaal66t

Share after the guess: Horses cannot vomit.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Bats can have sparkly poop.

TRUTH LIE SOURCE: bit.ly/ttaal67t
bit.ly/ttaal68t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Crows pull the tails of other animals, often to distract them and steal their food.

TRUTH LIE SOURCE: bit.ly/ttaal69t
bit.ly/ttaal70t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



The fish-eating jaws of an Irritator challenger dinosaur have been compared to the modern crocodile.

TRUTH LIE SOURCE: bit.ly/ttaal71t
bit.ly/ttaal72t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



The Gasosaurus is a dinosaur named after a gas company.

TRUTH LIE SOURCE: bit.ly/ttaal73t
bit.ly/ttaal72t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



The Camelotia borealis dinosaur was named in honor of the legend of King Arthur.

TRUTH LIE SOURCE: bit.ly/ttaal72t
bit.ly/ttaal76t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



The Arthurdactylus conandoylensis was named after the author who invented Sherlock Holmes.

TRUTH LIE SOURCE: bit.ly/ttaal77t
bit.ly/ttaal72t

A STEM Game based on the TWO TRUTHS AND A LIE book series (Walden Pond Press).



TRUTH OR LIE?



The Dracorex hogwartsia makes an appearance in the Harry Potter movies.

TRUTH LIE SOURCE: bit.ly/ttaal72t
bit.ly/ttaal80t

Share after the guess: The dinosaur was, however, named in honor of the book series.

A STEM Game based on the TWO TRUTHS AND A LIE book series (Walden Pond Press).



TRUTH OR LIE?



The Bookasaurus longuous had a skull shaped like an open book.

TRUTH LIE SOURCE: bit.ly/ttaal81t
bit.ly/ttaal82t

Share after the guess: There is sadly no dinosaur named Bookasaurus longuous. Maybe you will discover one!

A STEM Game based on the TWO TRUTHS AND A LIE book series (Walden Pond Press).



TRUTH OR LIE?



The Supersaurus was a small, horse-sized dinosaur.

TRUTH LIE SOURCE: bit.ly/ttaal83t
bit.ly/ttaal84t

Share after the guess: The Supersaurus was super-long, over 100 feet.

A STEM Game based on the TWO TRUTHS AND A LIE book series (Walden Pond Press).



TRUTH OR LIE?



The Elvisaurus had an unusual crest on its head that looked like the hair of the rock-n-roll legend.

TRUTH LIE SOURCE: bit.ly/ttaal72t
bit.ly/ttaal86t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



The Gigantoraptor dinosaur lived 16 million years ago.

TRUTH LIE SOURCE: bit.ly/ttaal87t
bit.ly/ttaal88t

Share after the guess: The dinosaur lived in the Cretaceous period, 65 million years ago.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Doctors once used maggots (fly larvae) to clean out dead tissue in a wound.

TRUTH LIE SOURCE: bit.ly/ttaal89t
bit.ly/ttaal90t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



The brackium emendo medical procedure hollows out the ends of a broken bone to assist with healing.

TRUTH LIE SOURCE: bit.ly/ttaal91t
bit.ly/ttaal92t

Share after the guess: Brackium Emendo is a healing spell from the Harry Potter series.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Surgeons have performed full face transplants.

TRUTH LIE SOURCE: bit.ly/ttaal93t
bit.ly/ttaal94t

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Rhinoplasty uses the bones of deceased rhinoceroses to replace shattered human bones.

TRUTH LIE SOURCE: bit.ly/ttaal95t
bit.ly/ttaal96t

Share after the guess: Rhinoplasty is a form of plastic surgery for the nose. No rhinos are harmed!

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Mad cow disease is a psychological disorder that causes people to moo.

TRUTH LIE SOURCE: wb.md/ttaal97t
bit.ly/ttaal98t

Share after the guess: Mad cow disease or BSE is a serious disease that affects the brain and spinal cord. No mooing.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



Spattergroit is a skin condition that makes a person look as if they have been spattered with red paint.

TRUTH LIE SOURCE: bit.ly/ttaal100t

Share after the guess: Thankfully, Spattergroit exists only in the world of Harry Potter.

A STEM Game based on the **TWO TRUTHS AND A LIE** book series (Walden Pond Press).



TRUTH OR LIE?



If you cannot touch your thumb to your fingers, you may have a condition called monkeypaw.

TRUTH LIE SOURCE: bit.ly/ttaal101t
bit.ly/ttaal102t

A STEM Game based on the TWO TRUTHS AND A LIE book series (Walden Pond Press).



TRUTH OR LIE?



The anatomical snuff box is a body part very near this game card.

TRUTH LIE SOURCE: bit.ly/ttaal103tt
bit.ly/ttaal104t

Share after the guess: It is the triangular depression formed when you stretch out your thumb.

A STEM Game based on the TWO TRUTHS AND A LIE book series (Walden Pond Press).



TRUTH OR LIE?



You swallow the majority of food down your tuberius duct.

TRUTH LIE SOURCE: bit.ly/ttaal105t
bit.ly/ttaal106t

Share after the guess: Medical words are so interesting, it is easy to make one up!

A STEM Game based on the TWO TRUTHS AND A LIE book series (Walden Pond Press).



TRUTH OR LIE?



Seeing a group of panda bears is considered viewing an “embarrassment of pandas.”

TRUTH LIE SOURCE: bit.ly/ttaal27t
bit.ly/ttaal28t

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TRUTH OR LIE?



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