



MATH
BOWL

At SCUDEM

ROUNDS FOR TODAY'S COMPETITION

- An Ode to ODE in Math
- Bad Movie Math
- Punny Math
- Mathematical Team Names



ROUND 1:

An Ode to ODE in Math

The answer to each question is a math term which contains "ode" in its spelling.



SAMPLE QUESTION:
THE "M" IN SCUDEM STANDS FOR THIS.

ANSWER: modeling



S C U

ROUND 1, QUESTION 1

A fixed point on a phase portrait could be a stable, unstable or saddle this.



ODE

ROUND 1, QUESTION 2

One of the three measures of central tendency is this.



ROUND 1, QUESTION 3

The enigma machine could do this to a message.



ROUND 1, QUESTION 4

In geometry, this is the shortest path between two points.



ROUND 1, QUESTION 5

A regular polyhedron with twelve faces is called this.



Dodecahedron



ROUND 2:

Bad Movie Math

Each question will be a quote from a movie that is mathematically inaccurate, either intentionally or by accident. You must identify the movie the quote is from.

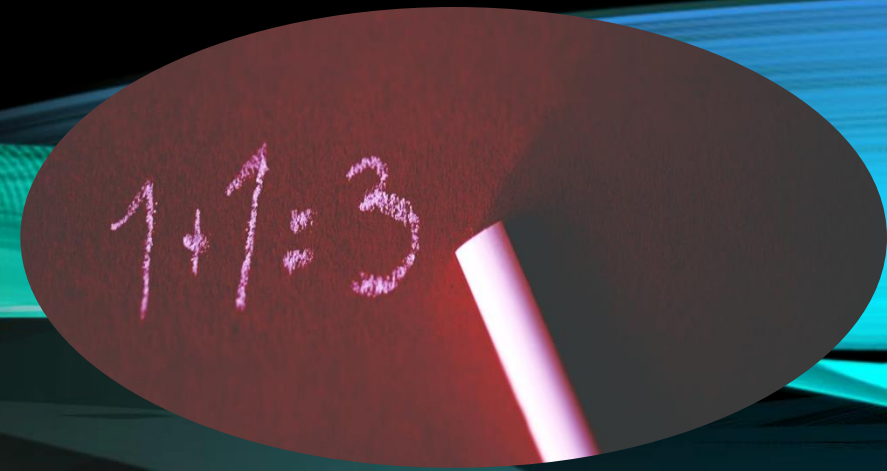
SAMPLE QUESTION:

James Bond: "How far is that rig from the terminal?
And how fast is it travelling?"

Technician: "It's 106 miles from the terminal going 70
miles and hour."

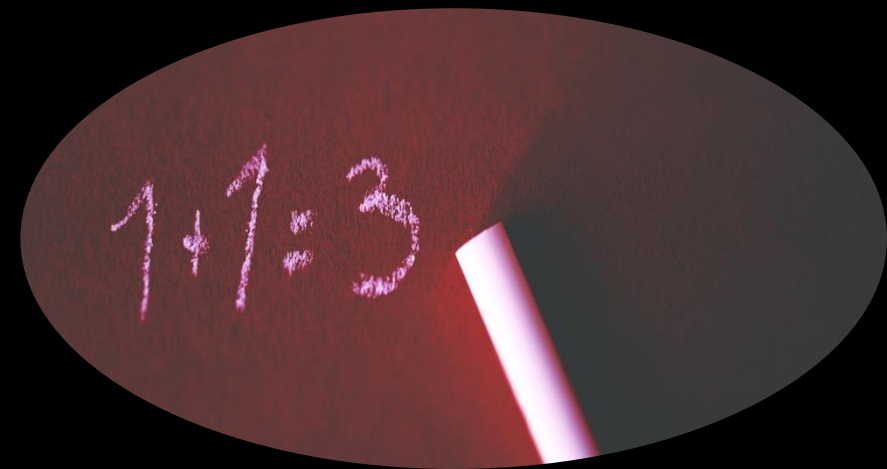
James Bond: "We've got 78 minutes."

ANSWER: The World Is Not Enough



ROUND 2, QUESTION 1

Scarecrow: “The sum of the square roots of any two sides of an isosceles triangle is equal to the square root of the remaining side.”



ROUND 2, QUESTION 2

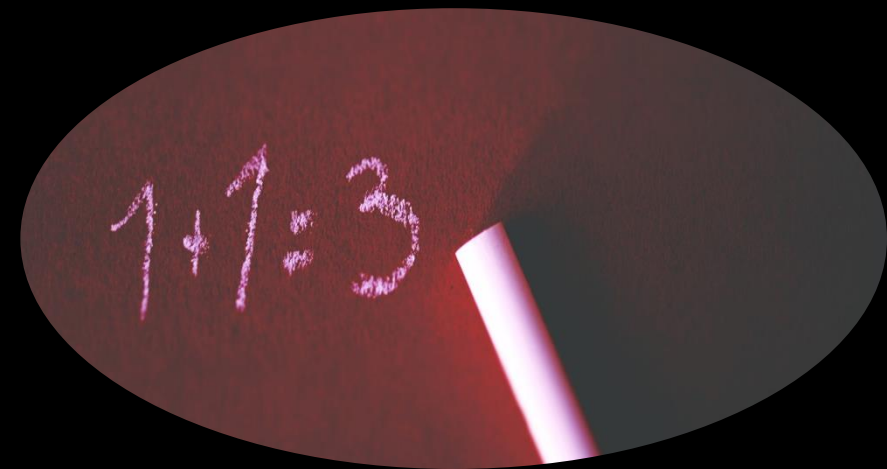
Pongo: “Everybody here? All fifteen?”

Patch: “Twice that many, Dad. Now there’s 99 of us!”



ROUND 2, QUESTION 3

Hazel Grace Lancaster: “There are infinite numbers between 0 and 1. There's .1 and .12 and .112 and an infinite collection of others. Of course, there is a bigger infinite set of numbers between 0 and 2, or between 0 and a million.”



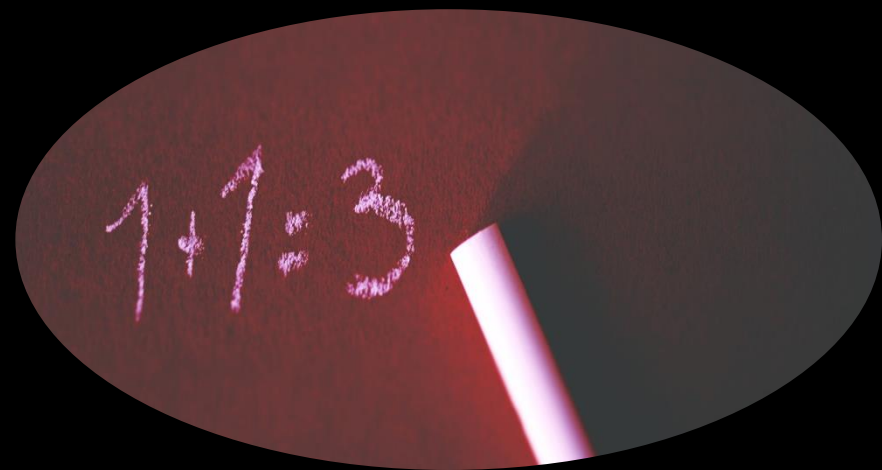
ROUND 2, QUESTION 4

Einstein Bobblehead: “Don’t you get it, kid? You’re looking for the secret number at the heart of the pyramids!”

Amelia Earhart: “Well, whistle me Dixie, the answer’s pi!”

Larry Daley: “Pi?”

Einstein Bobblehead: “Three point one four one five nine two six five to be exact!”



ROUND 2, QUESTION 5

Aaron Samuels: "It's a factorial, so you multiply each one by n."

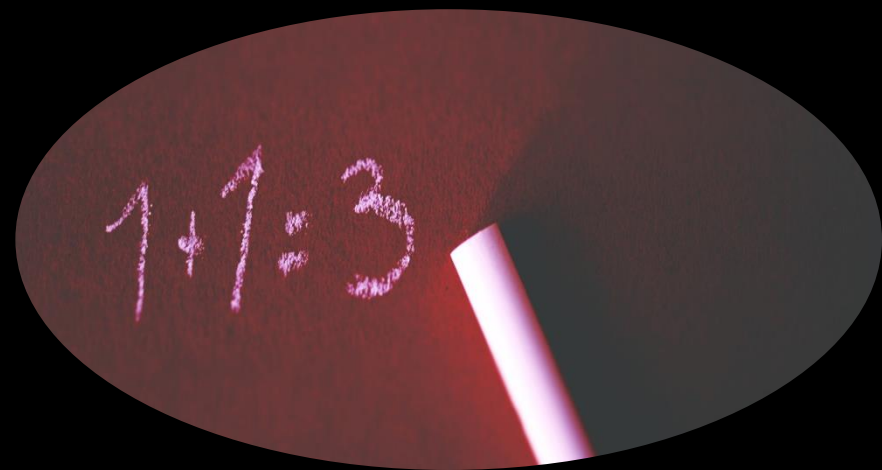
Cady Heron: *(thinking) Wrong.*

"Is that the summation?"

Aaron Samuels: "Yeah, they're the same thing."

Cady Heron: *(thinking) Wrong, he was so wrong.*

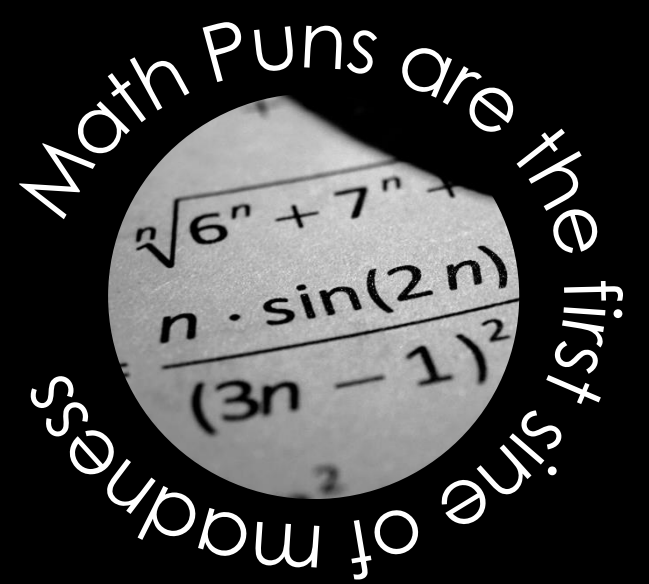
"Thanks, I, uh, I get it now."



ROUND 3:

PUNNY MATH

The answer to each question is a math pun!

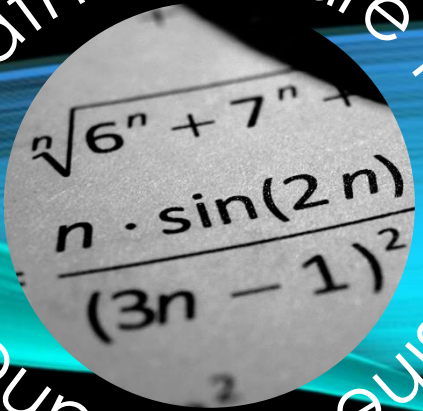


SAMPLE QUESTION:

What comment did the geometer make when asked about the four angles formed at the intersection of two perpendicular lines that a student had drawn?

ANSWER: They looked “all right” to her.

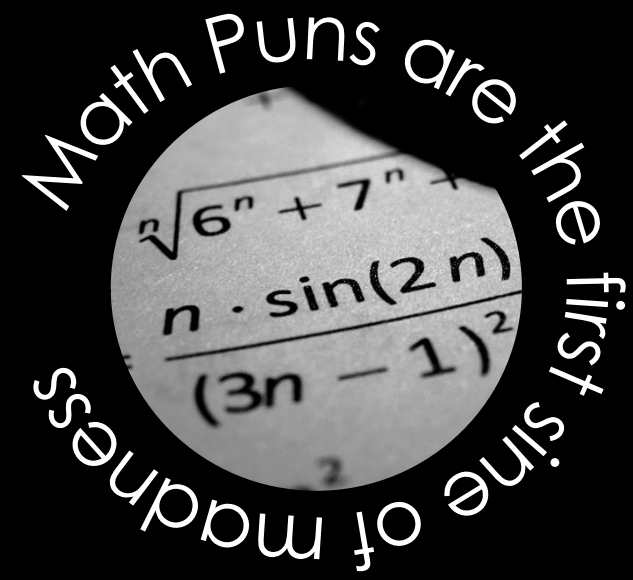
Math Puns are the first sine of madness



$\sqrt{6^n + 7^n}$
 $n \cdot \sin(2n)$
 $(3n - 1)^2$

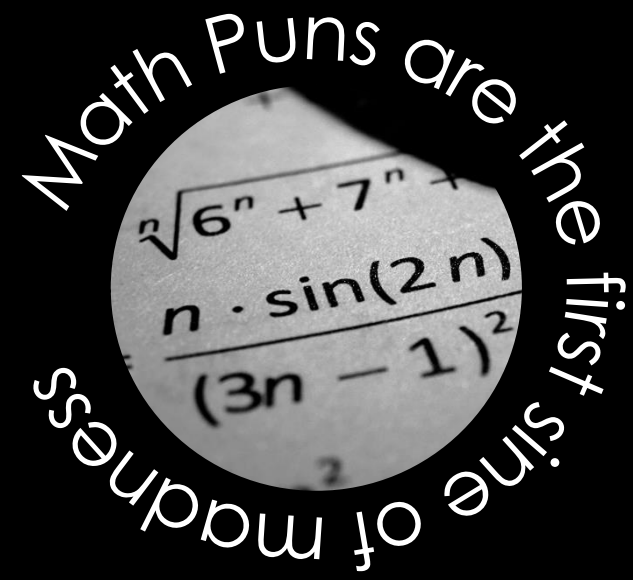
ROUND 3, QUESTION 1

Why is the function $y = e^x$ never grumpy, upset, or pessimistic?



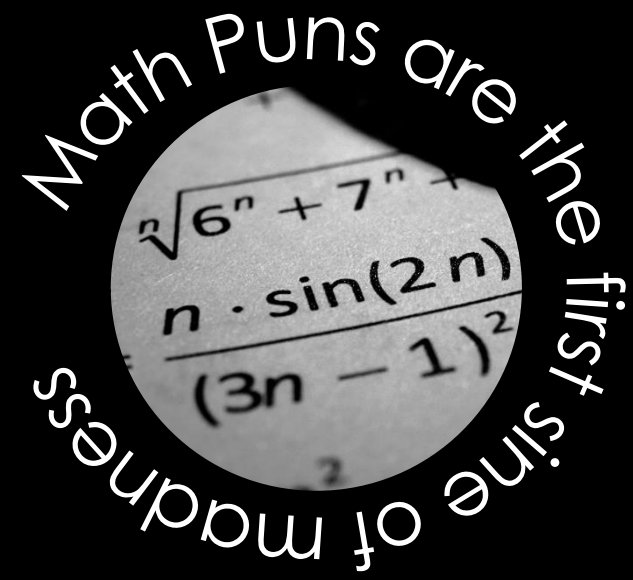
ROUND 3, QUESTION 2

How would a real mathematician describe her relationship with her imaginary friend?



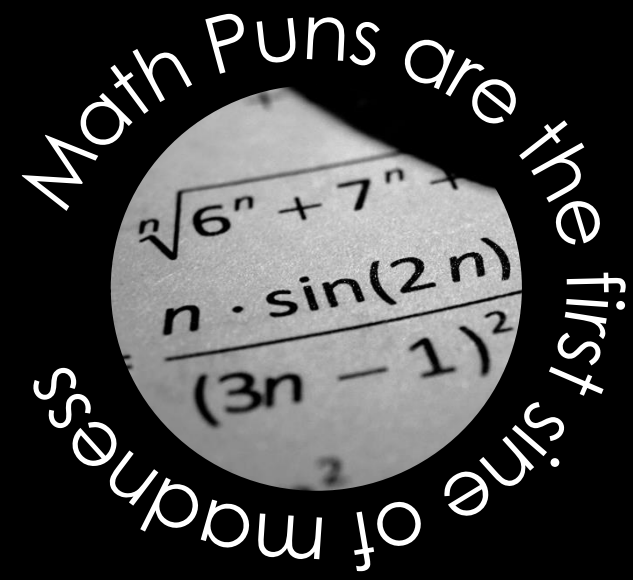
ROUND 3, QUESTION 3

Why could the atheist solve linear equations but didn't understand quadratic ones?



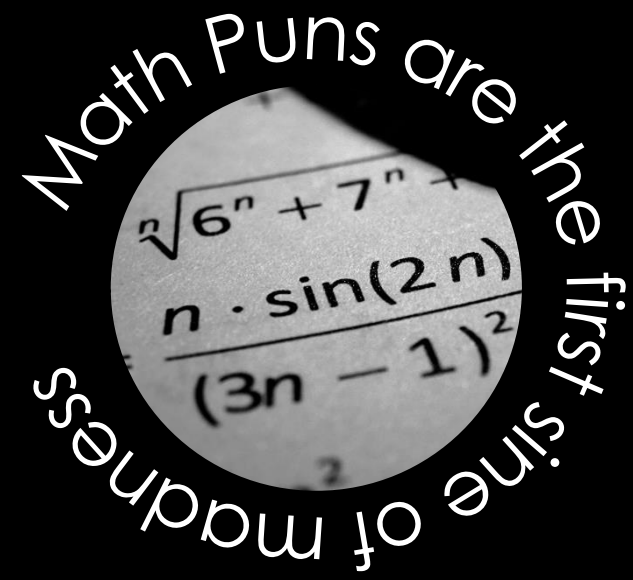
ROUND 3, QUESTION 4

If you are playing Tic-Tac-Toe and switch which letters you are playing, who does your opponent become?



ROUND 3, QUESTION 5

For the student who was so bad at math, the expression
 $2n + 3n$ was this to him.



ROUND 4:

MATHEMATICAL TEAM NAMES

Each hint is both about the name of a professional sports team AND a mathematical concept. Use the hint to find the name of the mathematical concept.



SAMPLE QUESTION:

An attempt to determine from a mixed group of people who are athletes from the US Military Academy and who are imposters would be this type of puzzle.

ANSWER: (Black) Knights and Knaves



ROUND 4, QUESTION 1

- “Lebron James plus Dwanye Wade plus Chris Bosh equal the Big Three” could be an example of this.



ROUND 4, QUESTION 2

- A question asking you to compare the goal scoring efficiency of Nashville's hockey team to their frequency of appealing to a higher deity would be this.



ROUND 4, QUESTION 3

- Your best guess as to which numbers are both worn by Minnesota professional major league baseball players and are non-factorable would be this.



ROUND 4, QUESTION 4

- The journey undertaken by the former NFL Houston team as they moved to Tennessee before they became the Titans would be this.



ROUND 4, QUESTION 5

- An in-depth examination of Salt Lake's Major League Soccer team could be described as this.



TIEBREAKER

- As of August 2017, the largest known prime is how many digits long?



Σ $+$ π ∞ \div

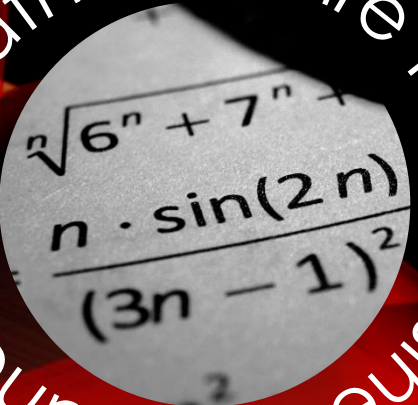
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THANKS FOR PLAYING!!!

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