

Categories for Round I:

Integer Sequences

Named Theorems

Limits

Integrate This You are to integrate the given expression.

Correct questions will be of the form "What is the derivative of $F(x)$?"

Mathematician Countries of Origin

Integer Sequences

1. What are the squares?
2. What are the Fibonacci numbers?
3. What are the primes?
4. What are the factorials?
5. What are the Catalan numbers?

Named Theorems

1. What is the Pythagorean Theorem?
2. What is the Fundamental Theorem of Calculus?
3. What is the Fundamental Theorem of Algebra?
4. What is the Central Limit Theorem?
5. What is Van der Waerden's Theorem?

Limits

1. What is e ?
2. What is $0!$?
3. What is 1^x ?
4. What is $\ln 2$ or $\log 2$?
5. What is e^e ?

Integrate This (answered "what is the derivative of ...?")

1. x^3
2. $\cos x$
3. $\tan^{-1} x$
4. $\log \log x$
5. x^x

Mathematician Countries of Origin

1. What is Germany?
2. What is France?
3. What is Hungary?
4. What is China?
5. What is India?

Categories for Round II:
They Proved It
Types of Algebras
Mathematical Computing
Sum It Up
Fields of Mathematics

They Proved It

1. Who is (Kurt) Gödel?
2. Who is (Karl) Weierstrass?
3. Who are (Ben) Green or (Terence/Terry) Tao
4. Who is (Ingrid) Daubechies?
5. Who is (Luitzen) Brouwer?

Types of Algebras

1. What is a group?
2. What is a field?
3. What is a polynomial ring?
4. What is a lattice?
5. What is an algebra over a field (or an \mathbb{F} -algebra)?

Mathematical Computing

1. What is Maple?
2. What is Sage?
3. What is NP-complete or NPC?
4. What is the condition number?
5. What is Gaussian or Gauss-Jordan elimination?

Sum it Up

1. What is 5^5 ?
2. What is positive infinity?
3. What is $\pi^2/6$?
4. What is 2^2 ?
5. What is e^x ?

Fields of Mathematics

1. What is topology?
2. What is Analysis?
3. What is Numerical Analysis?
4. What is Combinatorics or Discrete Math?
5. What is Number Theory?

Final jeopardy: Famous Mathematicians

Who was (Alan) Turing?