Categories for Round I:
Numbers
Famous Mathematicians I
Differentiate This: You are to differentiate the expression.
Correct questions will be of the form "What is the antiderivative of f'(x)?"
Counting
Fields of Research

Numbers
$100 1
$200 0
$300 e
$400 pi
$500 golden ratio

Famous Mathematicians I
$100 Alan Turing
$200 Riemann
$300 Srinivasa Ramanujan
$400 Leonhard Euler
$500 Bernoulli

Differentiate This
$100 1/x
$200 -\sin x
$300 \sinh x, hyperbolic sine, or (e^x - e^{-x})/2
$400 ln(10) 10^x
$500 2xe^x + x^2 e^x

Counting
$100 10
$200 10
$300 2
$400 8
$500 6

Fields of Research
$100 Combinatorics
$200 Dynamical Systems
$300 Algebraic Geometry
$400 Set theory
$500 Group theory

Categories for Round II:
Name that Symbol
Famous Mathematicians II
Integrate That: You are to integrate the given expression.
Correct questions will be of the form "What is the derivative of F(x)?"
Numerical Band Names
Famous Math Problems

Name the Symbol
$100 Summation
$200 Integration
$300 Integers
$400 Aleph null - cardinality of the natural numbers
$500 Quaternions

Famous Mathematicians II
$100 Maryam Mirzakhani
$200 Artur Avila
$300 Edward Witten
$400 Jean-Pierre Serre
$500 Lars Alfors or Jesse Douglass

Integrate That
$100 e^x
$200 \sec(x)
$300 -\ln(1-x)
$400 inverse or arc tangent
$500 Dirac delta function

Numerical Band Names
$100 2
$200 10000
$300 2
$400 3
$500 4

Famous Mathematical Problems
$100 The Bridges of Konigsberg
$200 Riemann hypothesis
$300 Fermat's Last Theorem
$400 Four Color Theorem/Problem
$500 Twin Prime Conjecture

Final Jeopardy
No