

Math Bowl Round 7

Problem 1: What is the GCF of 144 and 63?

Ans: 9

Problem 2: What surface has only one side and one boundary?

Ans: Mobius Strip or mobius band or mobius loop

Problem 3: If a math bowl question takes 5 minutes to write, how many hours does it take to write 24 questions?

Ans: 2 hours

Problem 4: At what temperature is the degrees celsius and degrees fahrenheit the same?

Ans: -40

Problem 5: If the half life of element X is 73 days. H OW much of the original element remains after a 365 day year (in terms of a fraction)?

Ans: 1/32

Problem 6: Find the sum of the first 9 terms in the fibonacci sequence

Ans: 54 (it starts at zero!)

Problem 7: What is $(\sin(e^{i\pi} * \pi))^0$?

Ans: 1

Problem 8: How many subsets can be created of the set $A = \{1, 2, 3, 45, 6\}$?

Ans: 32

Problem 9: What is the product of the zeroes of $f(x) = 3x^2 + 17x - 18$

Ans: -6

Problem 10: Evaluate $\sqrt{27 * 48}$

Ans: 36

Tiebreaker 1: What is 28 base 10 in base 3?

Ans: 1001

Only use if no one gets the first tiebreaker

Tiebreaker 2: What is the maximum number of intersections between 6 lines

Ans: 15