



## **PiVerb Math Olympiad (PiMO)**

## Pi (Class 5 & 6) Sample paper:

1. Amit, Bharath, Chitra and Deepa are friends and one of them committed a crime. They made the following statements. If only one statement is true, find who is guilty:

Amith: Bharath did it
Bharath: Deepa did it

3. Chithra: I did not do it

4. Deepa: Bharath lied when he said I did it

- 2. When we write numbers from 1 to 100, how many times does the digit 3 get repeated?
- 3. What is the 200th digit of the number 122333444455555...
- 4. A six-digit number is a multiple of 77 and 143. If the 3rd digit of the number is 7, what will be the remainder when the number is divided by 10?
- 5. In a garden, there are 2 plants. One plant is 44cm tall and the other is 80 cm tall. The first plant grows by 3cm every 2 months and the second by 5 cm every 6 months. The number of months after which the 2 plants have equal height is





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## Tau (Class 7 & 8) Sample paper:

- 1. How many times does the number 2 appear in a book having page numbers 1 to 250?
- 2. Consider 5 integers a, b, c, d, and e. When added pair wise they yield sums {-1, 3, 5, 6, 6, 8, 9, 12, 13, 15}. Find the largest of the 5 integers.
- 3. The sum of the digits of a seven-digit odd natural number is 3. How many such numbers are possible?
- 4. A 2021-digit number is multiplied by 54. The last digit of the product is 2 and the second last digit is 4. If the same number is multiplied by 46, the last two digits are
- 5. I added all the positive integers from 1 to P and obtained a total of 2021. By mistake, I added a number twice. What is the correct total?