

Global math Olympiad

CLASS : 8 (SYLLABUS & SAMPLE QUESTIONS)

Rational Number, Powers, Square and Square Root, Cube and Cube Root, Algebraic Expression, Factorization, Linear Equation, Variation, Time and Work, Percentage, Profit and Loss, Compound Interest and Simple Interest, Mensuration, Statistics, Probability, Mathematical Reasoning and Logical Ability

Applied Mathematics, Mathematical Reasoning.

- 1. If the next day after 3rd monday in a month is 16th, what will be the date on the day before 5th monday ?
 - (A) 25th (B) 26th
 - (C) 27th (D) 28th
 - (E) None of these
- 2. Ravi ranked 8th from the top and 37th from the bottom in a class. How many students are there in the class ?
 - (A) 42 (B) 44
 - (C) 46 (D) 47
 - (E) None of these
- 3. The value of

$$\frac{\left(p+\frac{1}{q}\right)^{m}\left(p-\frac{1}{q}\right)^{m}}{\left(q+\frac{1}{p}\right)^{m}\left(q-\frac{1}{p}\right)^{m}} \text{ is }$$

$$(A) \quad \frac{p}{q} \qquad (B) \quad \left(\frac{p}{q}\right)^{m}$$

$$(C) \quad \left(\frac{p}{q}\right)^{2m} \qquad (D) \quad \left(\frac{q}{p}\right)^{2m}$$

$$(E) \quad \text{None of these}$$

- 4. $x^{2} + \frac{1}{x^{2}} = 83$, find the value of $x^{3} \frac{1}{x^{3}}$ is (A) 756 (B) 764 (C) 784 (D) 796
 - (E) None of these

- 5. Thomas invested certain sum of money in a project such that the S. I. on the sum at the rate of 4 % p.a. for 4 yrs is Rs. 1600. Find the C.I. at the rate of 4% for the same period.
 - (A) Rs. 1698.59
 - (B) Rs. 1700
 - (C) Rs. 1890.90
 - (D) Rs. 1870.79
 - (E) None of these
- 6. The area of shaded region of the figure



- 7. A metallic sphere of radius 3 cm is melted and recast into a spherical ball of radius 0.6 cm. The number of ball that can be made out of it is:
 - (A) 90 (B) 95
 - (C) 100 (D) 125
 - (E) None of these



ANSWERS																
1.	(D)	2.	(B)	3.	(C)	4.	(A)	5.	(A)	6.	(A)	7.	(D)	8.	(D)	
9.	(C)	10.	(A)	11.	(C)	12.	(A)	13.	(A)	14.	(B)	15.	(D)			