

INTERNATIONAL MATHEMATICS OLYMPIAD 2016

Class-VII

Question: 50

Time: 60 Minutes

There are 3 sections, 30 questions in Section-A, 10 questions in Section-B, 10 questions in Section-C

Section-A (Mathematics)

1. How many prime numbers are there in $6^7 \times 35^5 \times 11^{12}$?

- (A) 28
- (B) 36
- (C) 42
- (D) 45
- (E) None of these

2. A number is multiplied and divided by the number $\frac{7}{19}$. The difference between the two results is 312.

The given number is:

- (A) 133
- (B) 49
- (C) 19
- (D) 7
- (E) None of these

3. If $47.2506 = 4A + \frac{7}{B} + 2C + \frac{5}{D} + 6E$, then the value of $5A + 3B + 6C + D + 3E$ is

- (A) 53.6003
- (B) 53.603
- (C) 153.6003
- (D) 213.0003
- (E) None of these

4. Find the mean proportional between 16 and 81.

- (A) 24
- (B) 32
- (C) 36
- (D) 42
- (E) None of these

5. If $P + Q + R = \sqrt{\frac{(P+1)(Q-3)}{R}}$, then the value of $14 + 38 + 21$ is:

- (A) 2
- (B) 5

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