11th iOM '18 International Olympiad of Mathematics

Presented by: SILVER ZONE FOUNDATION NEW DELHI, INDIA

Organized by : Mathematics Olympiad Foundation New Delhi, India

For supremacy in Mathematics
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CLASS : 5 (SYLLABUS & SAMPLE QUESTIONS)

Number Sense and Numeration, Numbers in Operations, Roman Numerals, Factors and Multiples, Fractions and Decimals, Percentage, Ratio and Proportion, Time and Distance, Average, Algebra, Measurement (Perimeter, Area, Volume, Time, Temperature), Geometry, Data Handling, Graphical Representation of Data, Reasoning and Aptitude.

The Actual Question Paper Contains 50 Questions. The Duration of the Test Paper is 60 Minutes.

1. **For long distance telephone calls, a telephone company charges 30 paise per minute or 1 paisa for two seconds. What would be the cost of a call for 3 minutes and 20 seconds?**
    (A) ₹ 1.00
    (B) ₹ 1. 20
    (C) ₹ 1. 25
    (D) ₹ 1. 30
    (E) None of these

2. **Using the digits 0, 1, 2, 3 make the least four digit number and represent the number with the help of a Roman Numeral. Digit should not be repeated.**
    (A) MXXIII   (B) MCXII
    (C) CMXXIII   (D) MMMCCX
    (E) None of these

3. **Find the perimetre of the given figure.**

    (A) 12 m   (B) 18 m

    (C) 9 m   (D) 17 m
    (E) None of these

4. **During a 3 - day festival, the number of visitors increases three times each day. If the festival ended on day 3 with 3105 visitors on that day, then how many visitors attended on day 1?**
    (A) 315   (B) 330
    (C) 345   (D) 360
    (E) 375

5. **A number has 5 hundreds, 7 tens, 2 ones, 3 tenths, 6 hundredths and 5 thousandths. Write the number.**
    (A) 572365
    (B) 57236.5
    (C) 5723.65
    (D) 572.365
    (E) None of these

6. **X is a decimal, when X is converted into fraction, it gives $\dfrac{25}{4}$. Find the value of X.**
    (A) 6.50
    (B) 6.25
    (C) 6.35
    (D) 7.25
    (E) None of these

7. **A is twice of B, B is twice of C, C is twice of D and D is twice of E then**
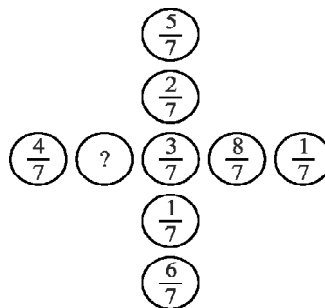(A) B = 4E   (B) B = E
(C) B = 8E   (D) B = 6E
(E) None of these

8. **M = 34, O = 23, N = 45, K = 21, E = 7, Y = 24 then what is the value of M + O - N × K ÷ E + Y?**
(A) 7256   (B) - 45
(C) - 54   (D) - 345
(E) None of these

9. **If XYZ = 789 and ABC = 123, then BAXY = ?**
(A) 1239   (B) 9876
(C) 2178   (D) 3789
(E) None of these

10. **How many chords and radii have been shown in the given circle?**

$\frac{5}{7}$

$\frac{2}{7}$

$\frac{4}{7}$? $\frac{3}{7}$ $\frac{8}{7}$ $\frac{1}{7}$

$\frac{1}{7}$

$\frac{6}{7}$

(A) 6, 5   (B) 5, 7
(C) 5, 2   (D) 2, 5
(E) None of these

ANSWERS									
1. (A)	2. (A)	3. (B)	4. (C)	5. (D)	6. (B)	7. (C)	8. (C)	9. (C)	10. (C)