7th iOM▾14
International Olympiad of
Mathematics

CLASS : 5 (SYLLABUS & SAMPLE QUESTIONS)

Number System, Operation on Numbers, Roman Numerals, Factors and Multiples, Fractions, Decimals, Geometrical Concepts, Area and Perimeter of Geometrical Figures, Graphical Representation of Data, Number Series, Applied Mathematics.

The Actual Question Paper Contains 40 Questions. The Duration of the Test Paper is 60 Minutes.
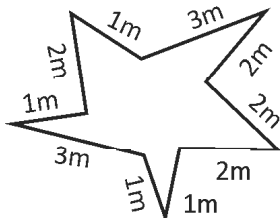
1. **For long distance telephone calls, a telephone company charges 30 paise per minute or 1 paisa for two seconds. What would be the cost of a call for 3 minutes and 20 seconds?**
   (A) ` 1.00
   (B) ` 1. 20
   (C) ` 1. 25
   (D) ` 1. 30
   (E) None of these

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
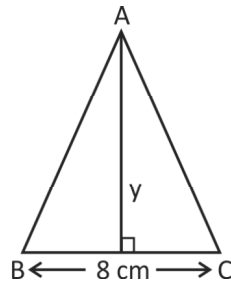(A) B = 4E   (B) B = E
(C) B = 8E   (D) B = 6E
(E) None of these

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. Look at the following figure

Area of triangle is 144 cm^2. Find the value of y.
(A) 8 cm   (B) 32 cm
(C) 24 cm   (D) 36 cm
(E) None of these

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

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