## CLASS <br> 4 <br> MTP 1

1 Mg

## SOF INTERNATIONAL MATHEMATICS OLYMPIAD

## GUIDELINES FOR THE CANDIDATE

Total Questions : 35 | Time: 1 hr .

1. Please check your Name, Class and Section on the OMR sheet provided to you. In case, OMR sheet with your name is missing, please fill in information about yourself in the blank OMR sheet provided before start of exam.
2. Please fill in your Mobile Number clearly on the OMR Sheet and do not forget to sign it. We will share your marks / result and other information related to SOF exams on your mobile number.
3. The Question Paper comprises four sections:

Logical Reasoning (10 Questions), Mathematical Reasoning (10 Questions), Everyday Mathematics (10 Questions) and Achievers Section (5 Questions)

Each question in Achievers Section carries 2 marks, whereas all other questions carry one mark each.
4. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
5. There is only ONE correct answer. Choose only ONE option for an answer.
6. To mark your choice of answers by darkening the circles on the OMR Sheet, use HB Pencil or Blue / Black ball point pen only. E.g.
Q.16: Sonia had 80 sweets. She gave 15 sweets to Danish and 15 sweets to Megha. How many sweets are left with her?
A. 50
B. 30
C. 60
D. 40

As the correct answer is option A, you must darken the circle corresponding to option A on the OMR Sheet.
7. Rough work should be done in the blank space provided in the booklet.
8. Return the OMR Sheet to the invigilator at the end of the exam.
9. Please fill in your personal details in the space provided on this page before attempting the paper.

## Name:

$\qquad$

## LOGICAL REASONING

1. Find the mirror image of the given figure, if mirror is placed to the right.
A.

B.

C.

D.

2. Which of the following options is exactly embedded in the given figure as one of its parts?

A.

B.

C.

D.

3. Find the missing number, if same rule is followed in all the three figures.

A. 180
B. 160
C. 420
D. 240
4. Which of the following options will complete the given figure pattern?

A.

B.

C.

D.

5. Find the number that will come on Teddy Bear 20.


## First


A. 5
B. 7
C. 9
D. 6
6. If 'Room' is called 'Bed', 'Bed' is called 'Window', 'Window' is called 'Flower' and 'Flower' is called 'Cooler', then on what would a man sleeps?
A. Window
B. Bed
C. Flower
D. Cooler
7. Select the combination of numbers so that letters are arranged accordingly to form a meaningful English word.

## U I T MEN

123456
A. $4,3,1,6,5,2$
B. $4,2,6,1,3,5$
C. $1,2,4,6,5,3$
D. $3,5,2,6,1,4$
8. A puppy was born on November 7.

| November, 20XX |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sun | Mon | Tues | Wed | Thu | Fri | Sat |
| $\mathbf{1}$ | 2 | 3 | 4 | 5 | 6 | 7 |
| $\mathbf{8}$ | 9 | 10 | 11 | 12 | 13 | 14 |
| $\mathbf{1 5}$ | 16 | 17 | 18 | 19 | 20 | 21 |
| $\mathbf{2 2}$ | 23 | 24 | 25 | 26 | 27 | 28 |
| $\mathbf{2 9}$ | 30 |  |  |  |  |  |

How many days old was the puppy on November 22?
A. 11
B. 15
C. 16
D. 22
9. Anjali is facing the School. She first makes a $\frac{3}{4}$ turn to the left and then a $\frac{1}{2}$ turn to the right. What will she be facing now?


Shopping mall
A. School
B. Park
C. Shopping Mall
D. House
10. There are 5 girls standing in a row.

- Nisha is second girl from last.
- Shreya is between Manju and Nitika.
- Payal is just after Nisha.
- Manju is in the middle.

Who is at the first position?
A. Manju
B. Shreya
C. Nitika
D. Payal

## MATHEMATICAL REASONING

11. Which of the following figures has fraction of unshaded part less than the fraction of shaded part of the given figure?

A.

B.

C.

D.

12. If

A. 414
B. 430
C. 420
D. 422
13. The smallest 4-digit number which is a multiple of 13 also is $\qquad$ .
A. 1000
B. 9999
C. 1013
D. 1001
14. Compare and fill the box.

$$
\text { XLIV - XX } \square \mathrm{XV}+\mathrm{XXXIX}
$$

A. $>$
B. <
C. =
D. Can't be determined
15. The perimeter of the given figure (not drawn to scale) is 49 cm . Find the length of CD.
A. 5 cm
B. 12 cm
C. 9 cm
D. 8 cm

16. The difference between eight thousands five hundreds nine ones and three thousands fifty seven ones is $\qquad$ _.
A. 5880
B. 5452
C. 5228
D. 5128
17. Find the difference between the smallest 5 -digit even number and the greatest 5 -digit odd number formed by using all the digits 2, 5, 8, 7 and 3 .
A. 23578
B. 63945
C. 63954
D. 87523
18. In 2013, the age of Priyanka is less than 70 years and is a multiple of 7 . In 2014 , her age is a multiple of 6 . Which of the following is her age in 2014?
A. 36 years
B. 42 years
C. 60 years
D. 66 years
19. A performance began at 19:45. It lasts for 1 hour 25 minutes. At what time did it end?
A. 20:10
B. $20: 25$
C. 21:05
D. $21: 10$
20. Find the sum of the first 6 multiples of 6 .
A. 84
B. 105
C. 126
D. 147

## EVERYDAY MATHEMATICS

21. Mohan's mother had 4 apples. She gave each one of Mohan's three friends half an apple to eat. What fraction of the 4 apples was remained?
A. 1
B. $1 \frac{1}{2}$
C. 2
D. $2 \frac{1}{2}$
22. Mohit earns ₹ 5503 in a month. Every month, he spends ₹ 2186 and saves the rest. How much will he save in 2 years?
A. ₹ 90150
B. ₹ 12848
C. ₹ 97608
D. ₹ 79608
23. Rajni bought a story book worth ₹ 2483 and two drawing books worth ₹ 1926 each. Find the estimated amount of money paid by her (rounded to the nearest tens).
A. ₹ 6340
B. ₹ 4630
C. ₹ 4460
D. ₹ 6344
24. Amit went for a walk and returned home at 7:00 a.m. If it took him 2 hours and 45 minutes, then at what time did he start to walk ?
A. $4: 45$ a.m.
B. $4: 30$ a.m.
C. $4: 15$ a.m.
D. 3:45 a.m.
25. Akshi worked for 8 hours at the exhibition. She was paid $₹ 95$ for an hour. How much did she earn?
A. ₹ 760
B. ₹ 670
C. ₹ 700
D. ₹ 750
26. 1 kg of onions costs ₹ 25 . If 3 kg of onions cost as much as 5 kg of potatoes, then how much will it cost to buy 12 kg each of potatoes and onions altogether?
A. ₹ 400
B. ₹ 180
C. ₹ 480
D. ₹ 300
27. The total length of 2 pieces of ribbon is 220 cm . If the length of one piece of ribbon is 180 cm longer than the other, then find the length of the longer piece.
A. 20 cm
B. 40 cm
C. 200 cm
D. 400 cm
28. Manya is 13 years old. Kavya is 15 years older than Manya. Akshita is half of Kavya's age. Find the age of Akshita.
A. 16 years
B. 12 years
C. 14 years
D. 18 years
29. Mr Sharma and his family is on their holiday, they spent ₹ 3458 on petrol; ₹ 3765 on food; and ₹ 2900 on stay. They also spent ₹ 1050 on sight seeing. How much did their holiday cost them?
A. ₹ 11107
B. ₹ 11170
C. ₹ 17100
D. ₹ 11173
30. Vivan bought 6 kg 500 g of wheat from one shop and 3 kg 850 g of wheat from another shop. How much wheat did he buy altogether?
A. 16 kg 300 g
B. 15 kg 170 g
C. 10 kg 900 g
D. 10 kg 350 g

## ACHIEVERS SECTION

31. Find the value of $\frac{P-Q}{R}$.
A. 1
B. $\frac{1}{3}$

P61
35 9148
$-\frac{70}{214}$
214
$-\frac{2 \text { Q0 }}{48}$
C. 0
$-35$
1 R
D. 2
32. A basket with 30 pears weighs 11 kg 200 g . The same basket with 18 pears weighs 7 kg . If each pear in the basket has the same weight,
(a) What is the weight of 1 pear?
(b) If cost of basket with 1 kg pears is ₹ 24 , what is the cost of basket with 12 kg pears?
(a)
(b)
A. 280 g ₹ 264
B. 350 g
₹ 264
C. 280 g
₹ 288
D. 350 g
₹ 288
33. Study the given bar graph showing marks scored by a student in different subjects and answer the following question.


Find the difference between the highest marks scored and total number of marks scored in Maths and Hindi.
A. 80
B. 88
C. 96
D. 184
34. If $\hat{N}+\vec{N}+\vec{N}+\vec{N}+\mathbb{C}=2780$ and $\vec{N}+\vec{N}+\mathbb{B}=1690$, then find the value of $\vec{B}+\vec{N}+\vec{z}+\mathfrak{k}+\mathbb{B}+$ 6
A. 4506
B. 4560
C. 9450
D. 3435
35. Which of the following figures has the largest perimeter?
A. 12 cm

B.

C. 10 cm

D.


