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**CLASS
4**

**LEVEL - 1
Set A1**

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Level - 1 : All Level-1 successful* participants will get certificate, aptitude report and school toppers will be eligible for school hero medals.

Level - 2 : School toppers* will be selected for level-2-National level - online computer based interactive test held at exam centres all over India. Winner will get merit certificate, medals, laptop, scholarship and other prizes.

Level - 3 Senior Class Toppers will qualify# for level-3-International level- where you will compete with students globally. Get selected for MIT-Harvard Maths Tournament (Online). Represent India & win laurels. Guidance by top scientists.

HMM17

* # See prospectus/website for details

ROUGH WORK

Instructions for the Candidate

1. You are allowed additional 10 minutes to fill the required details in the RESPONSE SHEET (OMR).
2. The question paper is made as per syllabus guidelines & pattern given in the information Booklet. The Question Paper for Classes 1 to 6 contains 40 Questions each to be answered in 60 minutes. The Question paper for classes 7 to 12 contains 60 Questions each to be answered in 60 minutes. All questions are compulsory. Further instructions are given in the instruction letter to the teacher.
3. Use the response sheet to mark your responses by darkening the required circle. The response sheet has to be returned to the foundation, duly filled in. **THE STUDENT CAN RETAIN THE QUESTION PAPER.**

MENTAL ABILITY

1. Which of these fractions is equivalent to a half?

- (1) $\frac{1}{3}$
- (2) $\frac{2}{5}$
- (3) $\frac{3}{6}$
- (4) None of these

2. Fill in the missing number:

$$4081 = 4001 + \underline{\hspace{2cm}}$$

- (1) 80
- (2) 81
- (3) 481
- (4) None of these

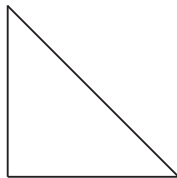
3. I have Rs. 100. I spend Rs. 22.70. How much do I have left?

- (1) Rs 77.30 (2) Rs. 77
- (3) Rs. 25.65 (4) None of these

4. A piece of rope measuring 40 m is cut into 8 equal lengths. How long will each piece be?

- (1) 10 m (2) 320 m
- (3) 5 m (4) None of these

5. How many acute angles are there in a given triangle?



- (1) 2 (2) 3
- (3) 1 (4) None of these

6. Entry to a zoo costs Rs. 250 for an adult and Rs. 100 for a child. How much would it cost for 3 adults and

2 children?

- (1) Rs. 350 (2) Rs. 950
- (3) Rs.700 (4) None of these

7. Rahul sets off from home at 8:55 am. He arrives at 10:40 am. How many minutes was his journey?

- (1) 105 minute
- (2) 1 hr 25 min
- (3) 2 hrs 5 min
- (4) None of these

8. If you add 100 to the smallest 5 digit number that can be formed by using digits 3, 1, 6, 6,7, what is the resulting number?

- (1) 13,667
- (2) 13,767
- (3) 31,766
- (4) None of these

9. Which is a better estimate for the weight of a Sahil?

- (1) 40 kilograms
- (2) 40 grams
- (3) 40 quintal
- (4) None of these

10. The distance from a center of a circle to a point on its circumference is called

- (1) Diameter
- (2) Radius
- (3) Chord
- (4) None of these

MATHEMATICS

11. Age of Amit is 17 years and age of Ramakant is 27 years. The sum of their age in roman numbers is
 (1) XLIV (2) XLIII
 (3) XLV (4) None of these
12. 395 is multiplied by a number and the product remains the same. The number is
 (1) 395 (2) 0
 (3) 1 (4) None of these
13. What is 80,258 rounded to the nearest 10?
 (1) 80, 250 (2) 80,000
 (3) 80, 260 (4) None of these
14. A dust storm sweeps across the prairie. It covers 9,000 acres of the prairie in dust, but leaves 5,624 acres untouched. How many acres does the prairie cover?
 (1) 14,000 (2) 14, 624
 (3) 3,376 (4) None of these
15. Choose two numbers from the box to complete the addition number sentence.
- | | | | |
|---|----|----|----|
| 2 | 51 | 62 | 84 |
|---|----|----|----|
- + = 86
- (1) 2, 84 (2) 51, 62
 (3) 2, 62 (4) None of these
16. A nursery has 24 flowers to plant. If they can put 8 flowers in each pot, how many pots will the nursery need?
 (1) 6 (2) 4
 (3) 3 (4) None of these
17. Srishti's brother is playing with blocks. He wants to put all 28 of his blocks into stacks with the same number of blocks in each stack. How many stacks could Srishti's brother make?
 (1) 2 (2) 5
 (3) 10 (4) None of these
18. The difference of two numbers is 5 and their sum is 19. If one of them is 7, what is the second number?
 (1) 20 (2) 24
 (3) 12 (4) None of these
19. Find the next number in this sequence:
- | | | | | | | |
|---|---|---|----|----|----|----|
| 1 | 3 | 6 | 10 | 15 | 21 | 28 |
|---|---|---|----|----|----|----|
- (1) 30 (2) 36
 (3) 39 (4) None of these
20. Which words make this statement true?
 Rs. 7.09 _____ Rs. 7.90
 (1) is greater than (2) is less than
 (3) is equal to (4) None of these
21. Sahil purchased a pack of biscuit for Rs.14.50. He paid Rs.50. How much change did Sahil receive?
 (1) Rs. 35.50 (2) Rs. 35.05
 (3) Rs.30.00 (4) None of these
22. Which is a better estimate for the volume of a test tube?
 (1) 10 millilitres
 (2) 10 litres
 (3) 10 gram
 (4) None of these
23. Subtract: 2 weeks 1 day – 2 weeks = _____ weeks
 _____ days
 (1) 1, 0 (2) 0, 1
 (3) 4, 1 (4) None of these

24. Which is the missing time?



- (1) (2)
- (3) (4) None of these

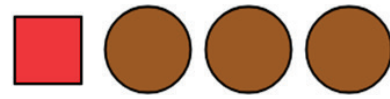
25. Reva's sister drew a shape that had corners. Which shape could she have drawn?

- (1) nonagon (2) circle
- (3) rectangle (4) None of these

26. Which figure shows quarters?

- (1) (2) (3) (4) None of these

27. What fraction of the shapes are squares?



- (1) $\frac{1}{4}$
 (2) $\frac{1}{3}$
 (3) $\frac{1}{2}$
 (4) None of these

28. A factory makes 974 sheets of construction paper per hour. How many sheets of construction paper will the factory make in 37 hours?

- (1) 35,008 (2) 37,036
 (3) 36,038 (4) None of these

29. If $27 + 30 = 30 + n$, n is equal to

- (1) 27 (2) 0
 (3) 57 (4) None of these

30. What is m if $9 \times m = 108$

- (1) 11 (2) 21
 (3) 12 (4) None of these

INTERACTIVE SECTION

31. Sachin is planning his day at the beach. This afternoon, he can fly a kite or read a book. For dinner, he can go to the pizza place, the fish restaurant, or the hamburger joint. Given these choices, how many different combinations does Sachin have to choose from?

- (1) 6 (2) 4
 (3) 3 (4) None of these

32. Does this picture have rotational symmetry?



- (1) Can't say (2) Yes

- (3) No (4) None of these

33. Look at the following schedule:

Light rail train schedule				
university	10:15	10:30	10:45	11:00
post office		11:00	11:15	11:30
zoo	10:30	11:30	11:45	12:00
baseball stadium	11:00			12:30
college		11:45	12:30	13:00
park	11:30			13:30
riverfront		12:15	13:15	14:00

Shelly got on the 10:30 train at the university. Can she get off at the park?

- (1) Yes (2) No
 (3) Can't say (4) None of these

34. Jolly has two family members with the same birthday, so she decides to make a cake for each of them. Jolly puts a total of 67 candles on the cakes. If she puts 29 candles on the first cake, about how many candles does she put on the second cake? Choose the better estimate.

- (1) 100 (2) 40
 (3) 70 (4) None of these

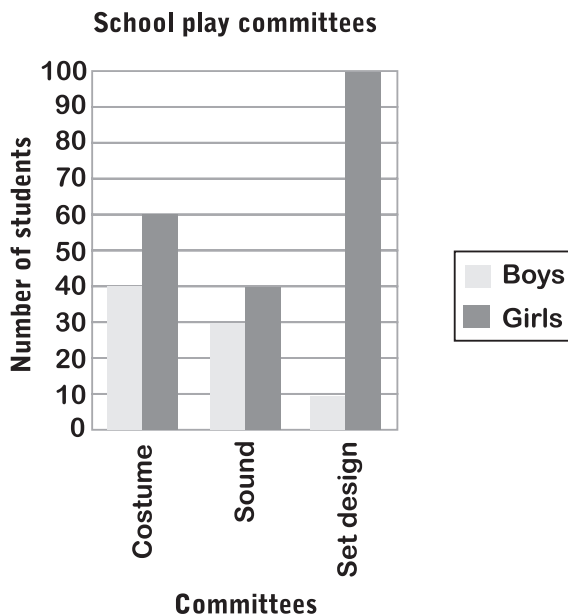
35. Firoz had 87 dolphin stickers. He gave 4 stickers each to 10 friends. How many stickers does Firoz have now?

- (1) 47 (2) 90
 (3) 55 (4) None of these

36. Mill city is smaller than Canyon city. Oak city is smaller than Mill city. Which city is smaller, Canyon city or Oak city?

- (1) Canyon city (2) Oak city
 (3) Both are equal (4) None of these

37. Some students at Senior Secondary School signed up to help out with the school play.



How many more girls than boys are on the costume committee?

- (1) 20 (2) 40
 (3) 60 (4) None of these

38. How much money does Mahika need to buy a CD player and a DVD?

CD player	₹1,373
mobile phone	₹5,215
computer mouse	₹1,465
DVD	₹1,204
telephone	₹3,015

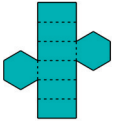
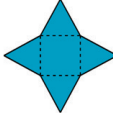

- (1) Rs. 2500 (2) Rs. 164
 (3) Rs. 2577 (4) None of these

39. Which inequality does this number line show?



- (1) less than 6
 (2) less than 7
 (3) less than 8
 (4) None of these

40. Which net will make a square pyramid?

- (1) 
- (2) 
- (3) 
- (4) None of these



END OF THE EXAM