



Delhi Public School Gandhinagar
Academic Session 2026-27

Total Questions: 50		Guidelines for the Candidate		Time: 1 hour	
PATTERN & MARKING SCHEME					
Section	(1) Logical Reasoning	(2) Mathematical Reasoning	(3) Everyday Mathematics	(4) Achievers Section	
No. of Questions	14	20	11	5	
Marks per Ques.	1	1	1	1	
All the questions are compulsory.					

LOGICAL REASONING

1. Which of the figures will replace the question mark (?) to complete the given pattern matrix?

- a) 14 b) 18 c) 15 d) 20

4	5	20
7	3	21
6	3	?

2. How many **triangles** are present in the given star figure?

- a) 5 b) 8 c) 10 d) 12



3. In a park, Richard noticed that there were 46 legs. How many people and dogs were there?

- a) 8 people and 4 dogs b) 9 people and 7 dogs
c) 10 people and 5 dogs d) 10 people and 6 dogs

4. Where will the hour hand of a clock stop if it shows 8 o'clock and turns one right angle clockwise?

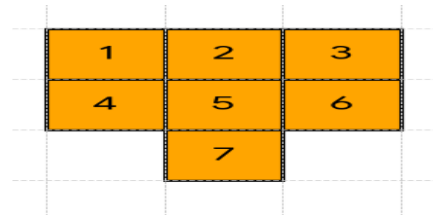
- a) 8:00
b) 8:15
c) 8:15
d) 11:15

5. Pointing to a photograph of a man, Rohit said, "His only brother is the father of my daughter's father." How is the man in the photograph related to Rohit?

- a) Father
b) Uncle
c) Grandfather
d) Brother

6. Look at the custom grid shape below. Removing which block will **increase** the total perimeter of the remaining shape?

- a) block 1
- b) block 3
- c) block 5
- d) block 6



7. If today is Monday, what day will it be after 10 days?

- a) Wednesday
- b) Thursday
- c) Friday
- d) Saturday

8. Add the first three common multiples of 4 and 6. Find what least number should be added to it so that it becomes the multiple of 11?

- a) 5
- b) 7
- c) 10
- d) 1

9. Which number remains unchanged after mirror reflection?

- a) 69
- b) 101
- c) 96
- d) 123

10. Symbol of the Roman numbers CX is interchanged. By how much value the new Roman number is decreased?

- a) 10
- b) 5
- c) 15
- d) 20

11. Complete the series. 2, 9, 18, 29, __ 57.

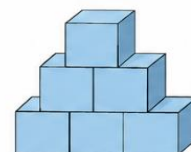
- a) 40
- b) 41
- c) 42
- d) 43

12. If $X = 97$ and $Y = 30$, then find the value of $2(X+Y)$

- a) 376
- b) 370
- c) 387
- d) 254

13. How many cubes are there in the given figure?

- a) 9
- b) 6
- c) 11
- d) 12



14. Find the smallest 3-digit number that leaves a remainder of 2 when divided by 12, 15, and 18.

- a) 182
- b) 362
- c) 122
- d) 242

MATHEMATICAL REASONING

15. A vessel contains 3.5 litre of water. If 1 litre 250 ml of water leaks out from a hole in the bottom, how much water is left in the vessel?

- a) 2.25 litres
- b) 2.50 litres
- c) 1.75 litres
- d) 2.15 litres

16. Find the missing number.

$$45 \times 120 = 0.01 \times \underline{\hspace{2cm}}$$

- a) 545 b) 5400 c) 54000 d) 540000

17. The perimeter of a square plot is equal to the perimeter of a rectangular field that measures 24m by 16 m. What is the area of the square plot?

- a) 384 sq m
b) 400 sq m
c) 1600sq m
d) 200sq m

18. The length of a rectangle is thrice its breadth. If the length of the rectangle is 24 cm, find its area.

- a) 198 sq.cm b) 144 sq.cm c) 192 sq.cm d) 164 sq.cm

19. When 156 is subtracted from 3 times of a number, the result is 192. Find the number.

- a) 106 b) 116 c) 126 d) 136

20. What is the average of the following data set: 2, 4, 6, 4, 8, 4, 10, 6, 4?

- a) 4 b) 6 c) 8 d) 10

21. HCF of 104 and 128 is _____

- a) 4 b) 6 c) 8 d) None of these

22. 238850 is written in words as

- a) Two lakhs thirty-eight thousand eight hundred and fifty
b) Two lakhs thirty-eight thousand eight hundred and five
c) Two lakh three thousand eight hundred and five
d) Two lakh three hundred and eighty-eight and fifty

23. Consider the number 8,974. Which of the following shows the correct rounding sequence to the nearest 10, 100, and 1,000 respectively?

- a) 8,970; 9,000; 9,000
b) 8,970; 8,900; 9,000
c) 8,980; 9,000; 9,000
d) 8,970; 9,000; 8,000

24. Which of the following Roman Numeral represents the given sum?

$$1140 + 869$$

- a) MMIX b) MCXL c) MCIX d) DXVI

25. Sameer ate $\frac{2}{5}$ of a cake on Monday and $\frac{3}{10}$ of the cake on Tuesday. What fraction of the cake is left?

- a) $\frac{5}{10}$ b) $\frac{3}{10}$ c) $\frac{7}{10}$ d) $\frac{1}{5}$

26. Ritu knits 848 stitches. If there are 32 stitches in each row of knitting, then how many complete rows have been knitted?

- a) 26.5 b) 28 c) 29 d) 25

27. Which of the following is a proper fraction?

- a) $\frac{5}{3}$ b) $\frac{7}{4}$ c) $\frac{2}{5}$ d) $\frac{9}{2}$

28. Varun cycled 63 km 322 m in a week. If he cycled the same distance everyday, then find the distance covered by him in one day.

- a) 6 km 49 m b) 4 km 69 m c) 9 km 46 m d) 9 km 460 m

29. A number is made up of 4 digits. The digit at the thousands place is the fourth multiple of 2. The digit at the tens place is three times the digit at the hundreds place. The digit at the ones place is the smallest odd prime number. If the digit at the hundreds place is 2, what is the number?

- a) 8263 b) 6263 c) 8233 d) 8362

30. What is the remainder when 432873 is divided by 9?

- a) 0 b) 2 c) 4 d) 1

31. Find the value of 123 thousands + 48 thousands + 14 hundreds + 65 tens + 6 ones

- a) 172436 b) 184376 c) 173056 d) 173456

32. In the addition of 23,125 and 35,624, find the place value of digit '7'.

- a) 7 b) 700 c) 70 d) 7000

33. What must be added to 87601 to make it one million?

- a) 901239 b) 912399 c) 901249 d) 902391

34. What is the product of the 8th multiple of 13 and the 6th multiple of 4?

- a) 2028 b) 3248 c) 2426 d) 2496

EVERYDAY MATHEMATICS

35. Sneha takes 45 minutes to complete her math homework and 35 minutes to complete her science homework. If she started studying at 5:15 PM, at what time did she finish both tasks?

- a) 6:40 PM
b) 6:35 PM
c) 6:25 PM
d) 6:15 PM

36. How many times during a day the hands of a clock make a straight line?

- a) 11
b) 12
c) 22
d) 24

37. A water tank can hold 250 litres of water. Due to a small leak at the bottom, 250 mL of water leaks out every minute. How many hours will it take for the completely filled tank to become completely empty?

- a) 10 hours
b) 1,000 hours
c) 16 hours 40 minutes
d) 25 hours

38. Every week Suhana saves ₹ 100 on Monday and ₹ 200 on Friday but spends 150 on Sunday. If this is her total weekly savings, how many weeks would she take to save enough to buy a ₹ 2100 mobile phone?

- a) 52 weeks b) 7 weeks c) 42 weeks d) 14 weeks

39. 3,00,000 people visited a park in 200 days and same number of people visited the park every day. How many people visited the park in 1 day?

- a) 1500
b) 150
c) 15000
d) 3000

40. Amit received an order of 4,507,890 toy cars to be manufactured in a month. Due to a severe shortage of manpower, his factory could only deliver 3,954,600 toy cars. How many toy cars did he fail to deliver?

- a) 572,170
b) 453,380
c) 236,540
d) 553,290

41. A shopkeeper mixed 3.6 kg of hazelnuts with 0.75 kg of raisins. He packed the mixture equally into 5 separate boxes. What is the exact weight of each box?

- a) 14.25kg b) 4.35kg c) 0.87kg d) 0.72kg

42. Which number completes the puzzle?

25 36 49 64 81 ?

- a) 121 b) 400 c) 92 d) 100

43. A is a 3-digit number and B is the number formed by reversing the digits of A. The difference between their digits of ten's place is:

- a) 9 b) 1 c) 0 d) 2

44. In a school, number of boys is 564 more than that of girls. If there are 2500 girls in the school, find the total number of students in the school.

- a) 5564 b) 5560 c) 5574 d) 5770

45. Lara bought a second hand car for Rs. 976.75 and her overhead expense was Rs. 50.25. She sold it for Rs 1037.75. What was her gain or loss?

- a) ₹ 10 Gain b) ₹ 10 Loss c) ₹ 15 Gain d) None of these

ACHIEVER'S SECTION

46. Select the correct match.

- a) 3560- MMMDXL
b) 2625- MMCDXXV
c) 2894 – MMDCCCXCIV
d) 3665 – MMMDCXLV

47. In the morning, the temperature was -24°C . It decreased by 6 degrees in the afternoon and increased by 20 degrees in the evening. What was the temperature in the evening?

- a) 4°C
- b) -4°C
- c) 24°C
- d) -10°C

48. Read the following statements carefully.

P: The smallest number that can be divided by the given numbers without leaving any remainder is called the least common multiple.

Q: The greatest number which divides two or more numbers exactly without leaving any remainder is called the highest common factor.

Which of the following options hold?

- a) Only P is true.
- b) Only Q is true
- c) Both P and Q are true
- d) Neither P nor Q is true

49. A bottle of juice contained 2 L of juice. After a party, only 1.5 L of juice was left. Find the **percentage reduction** in the quantity of juice.

- a) 30 %
- b) 25%
- c) 25 %
- d) 30 %

50. Mrs. Kapoor had ₹2400. She spent $\frac{1}{4}$ of it on groceries and $\frac{1}{3}$ of the **remaining** amount on a new dress. She then gave ₹200 to her son.

How much money is left with her now?

- a) ₹1000
- b) ₹1200
- c) ₹800
- d) ₹1400



ANSWER KEY

Question No.	Answer	Question No.	Answer
1	B	26	A
2	B	27	C
3	B	28	C
4	B	29	A
5	B	30	A
6	C	31	C
7	B	32	B
8	A	33	B
9	B	34	D
10	D	35	B
11	C	36	C
12	D	37	C
13	B	38	D
14	A	39	A
15	A	40	D
16	D	41	C
17	B	42	D
18	C	43	C
19	B	44	A
20	A	45	D
21	C	46	C
22	A	47	D
23	A	48	C
24	A	49	B
25	B	50	C