

Delhi Public School Gandhinagar Academic Session 2024-25 Mathematics Aptitude Test (MAT)

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

SECTION I: LOGICAL REASONING							
. What number should be added to 752 so that the sum becomes twice of 851?							
(A) 1603 (B) 9	9 (C) 9	950	(]	D) 653			
2. If the numerator of the fract	ion is 2 more thar	its deno	minator,	than fractio	n will be	written	
(A) $\frac{4}{6}$ (B) $\frac{5}{8}$	(C) $\frac{9}{16}$	(D) N	one of the	hese			
3.In a park, Richard noticed there?	hat there were 4	6 legs. H	ow man	ny people an	nd dogs v	were	
(A) 8 people and 4 dogs(C) 10 people and 5 dogs			_				
1. Find the odd one out.	4 6						
(A) 7 (B) 9	(C) 4	(D) 6					
5. Find the missing character.	If a certain rule	is follov	ved eithe	er row- wis	e or colu	ımn - wise.	
	6	3	8				
	11	4	12				
	Б	9 1					

6. What angle is made by the minute hand in one hour?

(B) G

(A)

F

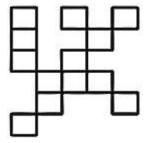
(C) B

(D) A



- (A) 90
- (B) 270
- (C) 360
- (D) 180

7. Find the area of the given figure made up of equal squares such that the side of each square is 19 cm:



- (A) 5,723 cm²
- (B) 3,632 cm²
- (C) 4,837 cm²
- (D) 4,693 cm²

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 II?

- (A) 5
- (B) 7
- (C) 10
- (D) 1

9. Length of which one of the following can be measured?

- (A) Line
- (B) Point
- (C) Line segment
- (D) Ray

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 B = 30, then find the value of 2 (X+Y)

- (A) 376
- (B) 370
- (C) 387
- (D) 254

13. In which of the following figures unshaded part represents unit fraction?



B)



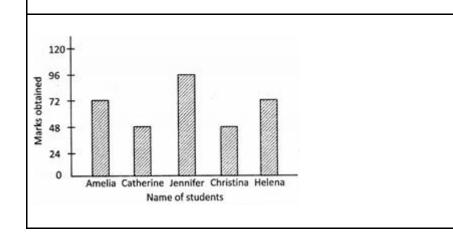
C)



D

14.

Direction: In the following bar graph marks obtained by five students in an examination has been shown.



Marks obtained by Helena is how much less than the marks obtained by Jennifer?

- (A) 25
- (B) 30
- (C) 24
- (D) 20

SECTION II: MATHEMATICAL REASONING

- 15. An angle which measures more than 180 degree but less than 360 degree is called
- (a) acute angle
- (b) Obtuse angle
- (c) reflex angle
- (d) straight angle

16. Find the missing number.

- (a) 545
- (b) 5400
- (c) 54000
- (d) 540000
- 17. Which of the following has greatest number of factors?
- (a) 25
- (b) 30
- (c) 10
- (d) 20
- 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. 0.0024 + 0.024 + 0.0204 =
- (a) 0.048
- (b) 0.0048
- (c) 0.4068
- (d) 0.0468

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 lakh thirty eight thousand eight hundred and fifty
(b) Two lakh 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
22 1456 547 may be directly a control of the magnest hypothesis airce
23. 1456.547 rounding off to the nearest hundredths gives (a) 1456.5 (b) 1460 (c) 1460.55 (d) 1456.55
(a) 1430.3 (b) 1400 (c) 1400.33 (d) 1430.33
24. Which of the following Roman Numeral represents the given sum?
1140 + 869
(a) MMIX (b) MCXL (c) MCIX (d) DXVI
25. 11. How many thousands are there in 9200 x 5?
(a) 460 (b) 406 (c) 4600 (d) 46
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 (b) 28 (c) 29 (d) 25
27 Vijey gold 786 gungekes in ooch week. How many gungekes did he goll in 48 weeks?
27. Vijay sold 786 cupcakes in each week. How many cupcakes did he sell in 48 weeks? (a) 37728 (b) 48880 (c) 45324 (d) 43524
(a) 31126 (b) 40000 (c) 43324 (d) 43324
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 third multiple of 2. The
digit at the hundreds place is half the digit at ones place. The digit at tens place is 1 more than
the digit at owns place. If the digit at tens place is 3, then what is the number?
(a) 6432 (b) 6423 (c) 6132 (d) 6234
20. What is the remainder when 122072 is divided by 02
30. What is the remainder when 432873 is divided by 9? (a) 0 (b) 2 (c) 4 (d) 1
(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) 0.07 (b) 0.70 (c) 7 (d) 0.37
(a) 0.07 (b) 0.70 (c) 7 (d) 0.37
33. What must be added to 87601 to make it one million?
(a) 901239 (b) 912399 (c) 901249 (d) 902391
24 What a late of the hard of
34. What is the product of the 8 th multiple of 13 and the 6 th multiple of 4? (a) 2028 (b) 3248 (c) 2426 (d) 2496
(a) 2020 (b) 3210 (c) 2120 (d) 2190
SECTION III: EVERYDAY MATHEMATICS
35. In a parking lot,1 out of every 8 cars is blue. What percent of the cars in this lot are
blue?
(A) 1.25 % (B) 7 % (C) 9 % (D) 12.5 %
36. A duck flew at 18 km per hour for 3 hours, then at 15 km per hour for 2 hours. How far did the duck fly in all?
(A) 69 km (B) 75 km (C) 81 km (D) 84 km
37. Mini took 35 minutes to complete her homework. She finished her homework at 12:05
p.m. What time did she start doing her homework?
(A) 11:30 pm (B) 11:30 am (C) 12:40 am (D) 12:40 pm
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 mebile phone?
buy a ₹ 2100 mobile phone?
(A) 52 weeks (B) 7 weeks (C) 42 weeks (D) 14 weeks
39. 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
40. There are 1482 birdhouses made at a factory each hour. What is the total number of
birdhouses made at the factory in 16 hours?
(A) 12372 (B) 21372 (C) 23712 (D) 23172
41. The temperature of water in a swimming pool is 53° F. Since the freezing point of water is
32° F, how many degrees would the temperature of the water have to drop to reach the freezing point?
(A) 9^{0} F (B) 21^{0} F (C) 20^{0} F (D) 19^{0} F

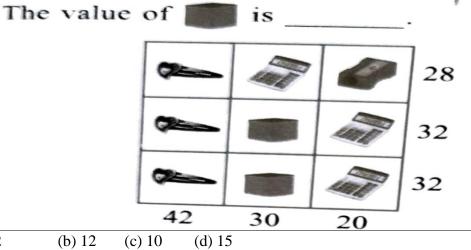
the distance between		
(A) 700 m	(B) 789 m (C) 989 m (D) 1188 m	
3. A is a 3-digit num	ber and B is the number formed by reversing the digits of A. The different	ence
(A) 9	(B) 1 (C) 0 (D) 2	
14. In a school, nu	mber of boys is 564 more than that of girls. If there are 2500 girls	in
	total number of students in the school.	
(A) 5564	(B) 5560 (C) 5574 (D) 5770	
_	econd hand car for Rs. 976.75 and her overhead expense was Rs.	
50.25. She sold it fo	or Rs 1037.75. What was her gain or loss?	
(A) ₹ 10 Gain	(B) ₹ 10 Loss (C) ₹ 15 Gain (D) None of the	se
	SECTION IV: ACHIEVERS SECTION	
	SECTION IV: ACHIEVERS SECTION	
	t match.	
46.Select the correction (a) 3560- MMMDX (b) 2625- MMCDX	t match. IL	
(a) 3560- MMMDX (b) 2625- MMCDX (c) 2894 – MMDC	t match. IL XV CCXCIV	
(a) 3560- MMMDX (b) 2625- MMCDX (c) 2894 – MMDC	t match. IL XV CCXCIV	
(a) 3560- MMMD (b) 2625- MMCDX (c) 2894 – MMDC (d) 3665 – MMMD	t match. IL XV CCXCIV	l
(a) 3560- MMMD (b) 2625- MMCDX (c) 2894 – MMDCO (d) 3665 – MMMD 47. If +	t match. XL XV CCXCIV CXLV +	I
(a) 3560- MMMD (b) 2625- MMCD (c) 2894 – MMDC (d) 3665 – MMMD (47. If + + + + + + + + + + + + + + + + + +	t match. XL XV CCXCIV CXLV +	l
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(a) 3560- MMMD (b) 2625- MMCDX (c) 2894 – MMDCO (d) 3665 – MMMD 47. If	t match. XV CCXCIV CXLV +	
(a) 3560- MMMDX (b) 2625- MMCDX (c) 2894 – MMDCO (d) 3665 – MMMD 47. If	t match. XV CCXCIV CXLV +	,
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(a) 3560- MMMDX (b) 2625- MMCDX (c) 2894 – MMDCO (d) 3665 – MMMD 47. If	t match. XV CCXCIV CXLV +	,
(a) 3560- MMMDX (b) 2625- MMCDX (c) 2894 – MMDCO (d) 3665 – MMMD 47. If	t match. XV CCXCIV CXLV +	,
(a) 3560- MMMD? (b) 2625- MMCDX (c) 2894 – MMDCO (d) 3665 – MMMD 47. If + + + + + + + + + + + + + + + + + +	t match. XV CCXCIV CXLV +	,
(a) 3560- MMMD (b) 2625- MMCDX (c) 2894 – MMDCO (d) 3665 – MMMD (47. If	t match. XV CCXCIV CXLV +	,

49.

Find the value of
$$\frac{Q \times R - S + P}{3}$$
.

$$\begin{array}{r}
2 \overline{R} \ 3 \ 3 \overline{S} \\
128 \ 3 \ 7 \ 5 \ 4 \ 6 \ 3 \ 8 \ (\\
-2 \ 5 \overline{P} \\
\hline
1 \ 1 \ 9 \ 4 \\
-1 \ 1 \ 5 \ 2 \\
\hline
4 \ 2 \ 6 \\
- \overline{Q} \ 8 \ 4 \\
\hline
4 \ 2 \ 3 \\
-3 \ 8 \ 4 \\
\hline
3 \ 9 \ 8 \\
-3 \ 8 \ 4 \\
\hline
1 \ 4 \\
\hline
(b) \ 4 \qquad (c) \ 3 \qquad (d) \ 10
\end{array}$$

(a) 9



(a) 2

50.

(b) 12

(c) 10

ANSWER KEY

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