SECOND MID TERM TEST - 2024

Standard - VIII

Time: 1.30 hrs	ne: 1.30 hrs MATHEMATICS			Marks:50
I Choose the correct an	swer:			7x1=7
1. If $x^2 - y^2 = 16$, and $(x+y)^2 = 16$	y) = 8 then (x-y) is	3		
a) 8	b) 3		d) 1	
2. (x+4) and (x-5) are the factors of				
a) x²-x+20	b) x ² -9x-20	c) x ² +x-20	d) x²-x-20	
3. The value of M in the				
a) 7	b) 8	c) 9	d) 11	
4. Sum of a number and				
a) 15	b) 20	c) 25	d) 40	14학년 [1일] 11 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -
5. The product of LCM a	nd HCF of two nu	umbers is 24. I	f one of the nun	nber is 6, then
the other number is _				7, 2003, 537
a) 6	b) 2	c) 4	d) 8	
6. Every 3rd number of the	ne fibonacci sequ	uence is a mult	iple of 8	
a) 2	b) 3	c) 5	d) 8	i jada Travelski
7. Common prime factors	s of 30 and 250 a	are		
a) 2 x 5	b) 3 x 5	c) 2 x 3 x 5	d) 5 x 5	1.000
II Match the following				5x1=5
8. x + 5 = 12	- a²-b	2		
9, $\frac{2p}{3} = 10$	$-\frac{1}{2} \times d$	$d_1 \times d_2$ sq.units		
10. (a+b)(a-b)	- 5			
11. Area of rhombus	- 15			
12. HCF of 20 & 15	7		•	

(2)

VIII Maths

III Answer any 5 questions:

5x2=10

- 13. Expand: (3a+4c)²
- 14. Expand: (y-5)3
- 15. Factorise 18xy 12yz
- 16. Factorise y²-10y+25
- 17. Solve the equation x 7 = 6
- 18. Convert the following statements into linear equations. The sum of 4 times a number and 18 is 28.
- 19. Using repeated subtraction method, find the HCF of 36 and 80.

IV Answer any 4 questions:-

4x5 = 20

- 20. Simplify: (P-2)(P+1)(P-4)
- 21. Expand: (104)3
- 22. Find the volume of the cuboid whose dimensions are (x+2)(x-1) and (x-3).
- 23. Factorise x3+15x2+75x+125
- 24. The sum of two numbers is 36 and one number exceeds another by 8. Find the numbers.
- 25. Using repeated subtraction method, find the HCF at 320, 120 and 95.

V Answer any one of the following:

1x8 = 8

26. Construct a parallelogram BIRD with BI=6.5cm, IR=5cm and ∠BIR=70. Also Find its area.

(Or)

27. Construct a rhombus FACE with FA=6cm and FC=8cm, Also find its area.

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