

# ▶ MATHEMATICS BRIDGE COURSE TEST

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BRIDGE COURSE  
THE GUIDE



# 2023

## Bridge course Test



**Prepared by:**  
**T.SHIVAJI**  
**MMDRS, HARAPANAHALLI TOWN**  
**VIJAYANAGARA DIST**  
**Mob.9916142961**



# **MATHEMATICS (E.M)**

## **BRIDGE COURSE TEST-2023**

**T.SHIVAJI, MMDRS Harapanahalli town, Vijayanagara dist,  
Mobile.9916142961**

# Learning competencies

Class : 9<sup>th</sup> std.

Subject : Mathematics

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1. To know about numbers systems.
2. Concept of exponents.
3. Concept of commercial arithmetic.
4. To understand the squares, square roots.
5. To understand the cubes and cube roots.
6. Concept of factorization.
7. To draw the pie chart and histogram.
8. To construct the triangles and its properties.
9. To solving the algebraic expressions.
10. To calculate the area and volume of the solid figures like cube and cuboids.

# **BRIDGE COURSE PRE TEST -2023**

Class : 9<sup>th</sup> std.

Subject : Mathematics

Date:

No.of questions: 20

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1. If  $A1X1A=121$ , then the value of A is.....
2. Is 251354154 divisible by 2 or not?.
3. State 1<sup>st</sup> law of exponents.
4.  $2^2 \times 2^4 \times 3^2 \times 3^{-6} = \dots\dots\dots$
5. Write the formula to find the % of profit.
6. Write long form of GST.
7. Simplify :  $\sqrt{16} + \sqrt{121}$ .
8. The square of 5 is .....
9.  $\sqrt[3]{216} = \dots\dots\dots$
10. What is the value of cube of 8?.
11. Factorize :  $x^2+3x+2$ .
12. Find the factors of  $2x^2+3x$ .
13. Draw the graph for  $x+y=2$ .
14. What is origin?.
15. The sum of the interior angles of the triangle is...
16. Construct a right angled triangle, in which its base is 5cm and height is 7cm.
17. Solve x:  $x+5=8$ .
18. Find the value of y in  $2y-1=9$ .
19. Find the volume of cube its side is 4cm.
20. Find the CSA of cuboid  $l=10m$ ,  $b=8m$  &  $h=4m$ .

# **BRIDGE COURSE POST TEST -2023**

Class : 9<sup>th</sup> std.

Subject : Mathematics

Date:

No.of questions: 20

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1. Construct a magic square by using numbers from 1 to 9.
2. Find the quotient and remainder when 113 is divided by 13.
3. Simplify :  $3^4 \times 2^8 \times 3^9 \times 3^4 \times 2^7$ .
4. Using law of exponents solve  $1024 \times 216$ .
5. Find the simple interest for Rs1000 for 3 years at the rate of 5%.
6. Write the formula to find the loss percentage.
7. Simplify :  $\sqrt{225} - \sqrt{100}$ .
8. Find the square root of 100 by prime factorization.
9.  $\sqrt[3]{512} = \dots\dots\dots$
10. Find the cube root of 125 by factorization method.
11. Factorize :  $x^2 + 14x + 49$ .
12. Find the factors of  $25x^2 - 16y^2$ .
13. Draw the graph for  $x - y = 5$ .
14. In the equation  $x + y = 1$ , if  $x = 0$  then the value of  $y$  is...
15. In a right angled triangle, one angle must be .....
16. Construct a triangle in which its base is 5cm and altitude is 6cm.
17. Solve  $x$ :  $3x = 9$ .
18. Find the value of  $z$  in  $\frac{3z}{4} = 9$
19. Find the TSA of cube in which its one side is 10cm.
20. Find the volume of cuboid in which  $l = 4\text{m}$ ,  $b = 3$  &  $h = 10\text{m}$ .

## Bridge course test – Result analysis

Subject: Mathematics

Class : \_\_\_\_\_

Sl no	Name of the student	Test	Abilit y1		Abilit y2		Abilit y3		Abilit y4		Abilit y5		Ability 6		Ability 7		Ability 8		Ability 9		Ability 10		A	B	Is student comes under remedial?
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
1		Pre																							
		Post																							
2		Pre																							
		Post																							
3		Pre																							
		Post																							
4		Pre																							
		Post																							
5		Pre																							
		Post																							
6		Pre																							
		Post																							
7		Pre																							
		Post																							
8		Pre																							
		Post																							
9		Pre																							
		Post																							
10		Pre																							
		Post																							
11		Pre																							
		Post																							

12	Pre																					
	Post																					
13	Pre																					
	Post																					
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19	Pre																					
	Post																					
20	Pre																					
	Post																					
21	Pre																					
	Post																					
22	Pre																					
	Post																					

Subject teacher

Principal/Head master

**List of students which are comes under remedial teaching**

**Subject : Mathematics**

**Class:**

Sl no	Name of the student	Performance in the month						Overall performance
		July	August	September	October	November	December	
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								



# **Action plan for remedial teaching**

**Class : 9<sup>th</sup> std**

**Subject : Mathematics**

Sl no	Ability	Activity	Allotted period	Result
1	To know about numbers systems.			
2	Concept of exponents.			
3	Concept of commercial arithmetic.			
4	To understand the squares, square roots.			
5	To understand the cubes and cube roots.			
6	Concept of factorization.			
7	To draw the pie chart and histogram.			
8	To construct the triangles and its properties.			
9	To solving the algebraic expressions.			
10	To calculate the area and volume of the solid figures like cube and cuboids			