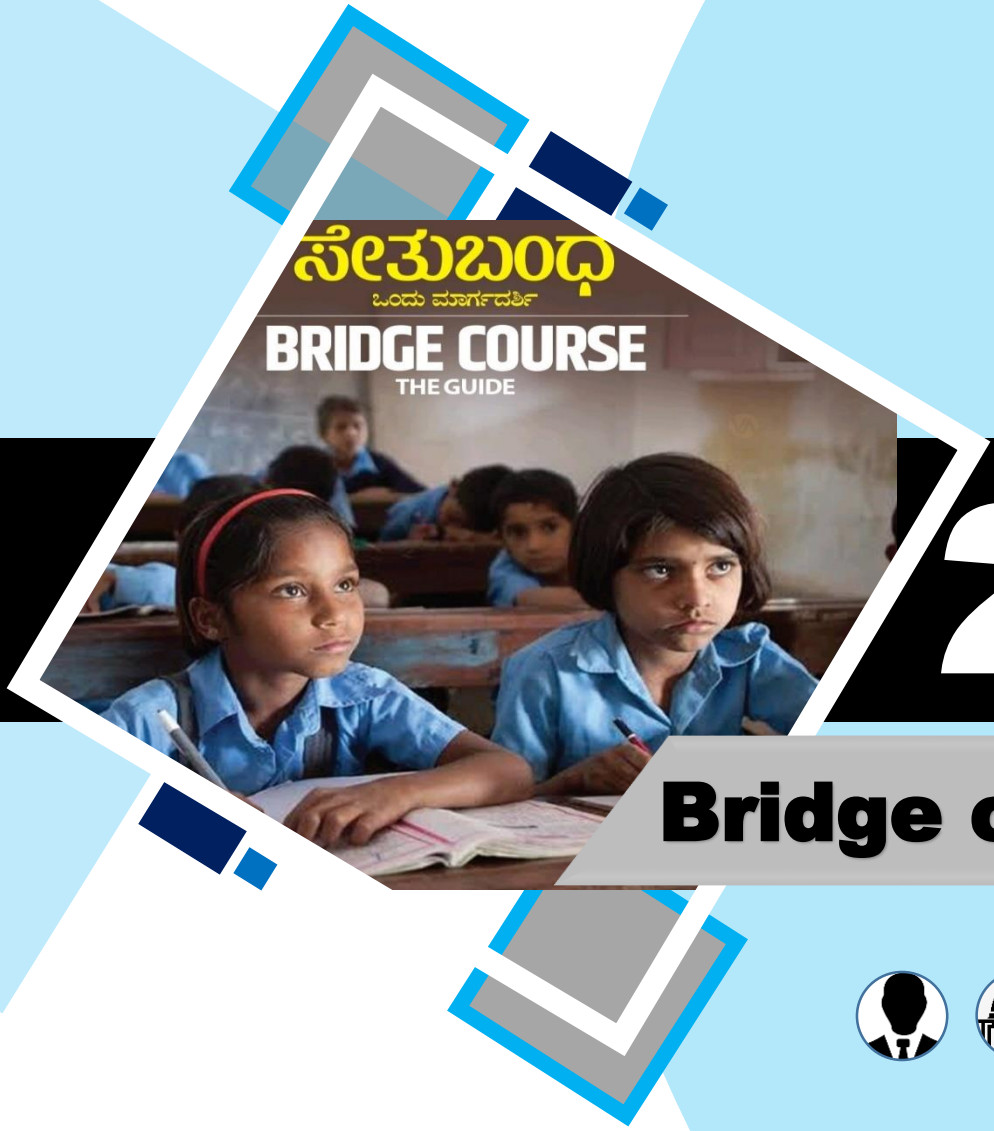
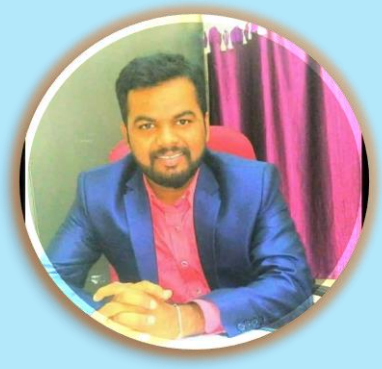
MATHEMATICS
BRIDGE COURSE TEST



2021

Bridge course Test

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



MATHEMATICS (E.M)

BRIDGE COURSE TEST-2021

22-Jun-21

T.SHIVAKUMAR

Learning competencies

Class : 6th std. **Subject : Mathematics**

1. Simple calculations
2. Basic operations
3. Measurements
4. Tenths and hundreds
5. Area and its boundary
6. Ways of multiple and divide
7. Decimals.

Learning competencies

Class : 7th std. **Subject : Mathematics**

1. Concept of fractions and decimals
2. To draw the histogram
3. To calculate the perimeter and area of the geometrical figure.
4. To solve puzzle and word problems in the algebra
5. Concept of ratio and proportion
6. Concept of symmetry
7. To Construction of angles .
8. Concept of integers
9. To know the number system.
10. Concept of geometry .

Learning competencies

Class : 8th std. **Subject : Mathematics**

1. Concept of integers.
2. To know about fractions and decimals.
3. To calculate the mean, median and mode.
4. To know about simple equations.
5. To understand the angles and lines.
6. To understand the properties of triangles.
7. Concept of rational numbers.
8. To calculate the perimeter and area.
9. Concept of exponents.
10. To understand the concept of algebraic expressions.

Learning competencies

Class : 9th std. **Subject : Mathematics**

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.

Learning competencies

Class : 10th std. **Subject : Mathematics**

1. To know about numbers.
2. Concept of Euclid's geometry.
3. Concept of quadrilaterals.
4. To construct the triangles.
5. To calculate the area of triangle by using Heron's formula.
6. To understand the concept of coordinate geometry.
7. To know about concept of circles and its properties.
8. To calculate the area and volumes of different geometrical solids.
9. Concept of probability.
10. To understand the concept of statistics, frequency polygon.

BRIDGE COURSE PRE TEST -2021

Class : 6th std. **Subject : Mathematics**
Date: **No.of questions: 14**

1. Add : 125+175.
2. Subtract : 159-122.
3. Multiply : 125 by 12.
4. Divide : 38 by 2.
5. 1 kg = …… gms.
6. 1cm = …… mm.
7. The hundredths place in 1254 is ……..
8. How many zeros are there after 10th place in 1200.
9. If the point is outside the circle, then it is called ……... (exterior/interior).
10. Give any one example for circle.
11. Solve : 1021x10
12. Solve : 125 is divided by 15.
13. Write the decimal 12.25 in words.
14. The tenths place in the decimal 100.235 is……

BRIDGE COURSE POST TEST -2021

Class : 6th std. **Subject : Mathematics**
Date: **No.of questions: 14**

1. Add : 1025+101.
2. Subtract : 1789-122.
3. Multiply : 224 by 12.
4. Divide : 54 by 3.
5. After converting 1500 gms to kg, it becomes ……..
6. 300cm is equal to …….m.
7. How many zeros will come in 1 lakh?
8. Write 12054 in place value chart.
9. Saniya has 10m long and 2m wide board, then what is its area?
10. What is perimeter?.
11. Solve : 1001x12
12. Solve : 755 is divided by 5.
13. Write the decimal 10.250 in chart.
14. The value of hundredths in decimal 12014.2 is...

BRIDGE COURSE PRE TEST -2021

Class : 7th std. **Subject : Mathematics**
Date: **No.of questions: 20**

1. What is the place value of 5 in the number 15423?
2. Write 25 as its Roman number system.
3. What is natural numbers?
4. Whole number is starts from …….
5. Write all the factors of 16.
6. Writ any four multiplies of 5.
7. What is line segment?
8. What is the longest chord in a circle?
9. What is acute angle?
10. Right angle should be …… degree.
11. Simplify : (-5)+2.
12. Add the number : -1, 8, 9, -6 & 5.
13. Write any one example for proper fraction.
14. Solve : $\frac{1}{2} + \frac{8}{2}$.
15. Write 1.5 on number line.
16. Add : 0.02+25.23.
17. Draw the bar graph for the following

Subjects	K	E	H	M	SC	S.S
MARKS	75	35	85	45	65	70

18. Calculate the area of square when its side is 5cm.
19. If x+2, then the fifth term becomes ……
20. is 1, 5, 6 & 8 proportion or not?

BRIDGE COURSE POST TEST -2021

Class : 7th std. **Subject : Mathematics**
Date: **No.of questions: 20**

1. Write 85124 in place value chart.
2. Write 554 in roman number.
3. What is multiplicative identity?
4. Fill in the blank 5+0= ……. + 5.
5. Find the HCF of 10 & 15.
6. Write common factors of 12 & 20.
7. What is triangle?
8. …….. is two times its radius?
9. What is angles?
10. What is obtuse angle?.
11. Simplify : 10+(-6).
12. Subtract -8 by 10.
13. Write one example for mixed fraction.
14. Solve : $4\frac{1}{3} - \frac{8}{2}$.
15. Add the decimals : 2.5+5.3+6.89.
16. Subtract 9.325 from 10.002.
17. Draw the bar graph for the following

Names	Ruhul	Chitti	Goutham	Nikhil	Vivek	Sahil
Runs	8	25	100	75	125	30

18. Find the perimeter of rectangle, l=5m & b=2m.
19. What will the 4th term of x+3?
20. Solve x in x:5::10:2 it is in proportion.

BRIDGE COURSE PRE TEST -2021

Class : 8th std. **Subject : Mathematics**
Date: **No.of questions: 20**

1. Add : (-1)+(-2)+(-8).
2. Which is the additive inverse?
3. Simplify : $\frac{1}{2} + \frac{3}{4}$.
4. Subtract 1.25 from 2.25.
5. What is mean data?
6. Find the median for 1, 9, 6.
7. Solve : z+5=8
8. What is equation?
9. Acute angle must be lie between …….. degrees.
10. What is line segment?
11. Write the formula to find the area of triangle.
12. How many degrees in a triangles must have?
13. Find : $-\frac{1}{2} \times \frac{3}{2}$.
14. What is rational number?
15. Find the perimeter of square when its side is 4m.
16. If radius of circle is 7cm, find its area.
17. The value of $2^2 x 2^5 x 2^8$ is ……..
18. State third law of exponents.
19. Add : 4x, 5y, 8x, -9x, 10y, & 3x.
20. Multiply : 3xyz & -8xy.

BRIDGE COURSE PRE TEST -2021

Class : 8th std. **Subject : Mathematics**
Date: **No.of questions: 20**

1. Represent $\frac{3}{4}$ on number line.
2. Multiply : $-\frac{4}{12}$ & $\frac{2}{8}$.
3. Simplify : $\frac{1}{2} - \frac{3}{4}$.
4. Find the product of 2.65 & 1.22.
5. Calculate the mean data for 1, 2, 8, 9, 8, 7, 11, 2.
6. The mode of data 4,5,4,7,5,4,5,51,4,7,7,4 is …….
7. Solve : 2x+5=13
8. Find the value of z in $\frac{3z}{4}$ =9
9. What is parallel lines?
10. 175^0 is an example for …….. angle.
11. What is triangle?
12. How many angles does have triangle?
13. Solve : $-\frac{1}{7} + \frac{5}{2}$.
14. Find : $\frac{3}{12}$ x $-\frac{5}{21}$.
15. Find the area of parallelogram when its base is 10cm and height is 5cm.
16. Find the circumference of the triangle r=14cm.
17. Give the examples for first law of exponents.
18. Simplify : $3^4x2^8x3^9x3^4x2^7$.
19. Simplify : -3y+10y+7y-6y.
20. Find the product of $8yxz^2$ & $-2xy^2z$.

BRIDGE COURSE PRE TEST -2021

Class : 9th std. **Subject : Mathematics**
Date: **No.of questions: 20**

1. If A1X1A=121, then the value of A is…….
2. Is 251354154 divisible by 2 or not?.
3. State 1st law of exponents.
4. $2^2x2^4x3^2x3^{-6}$= ……..
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. $\sqrt[3]{216}$ =……
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 -2021

Class : 9th std. **Subject : Mathematics**
Date: **No.of questions: 20**

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 : $3^4x2^8x3^9x3^4x2^7$.
4. Using law of exponents solve 1024x216.
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. $\sqrt[3]{512}$ =.....
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=4m, b=3 & h=10m.

BRIDGE COURSE PRE TEST -2021

Class : 10th std. **Subject : Mathematics**
Date: **No.of questions: 20**

1. Find any two rational numbers between 4 & 5.
2. The R.F value of $\sqrt{x}$ is ……..
3. State Euclid's 1st postulate.
4. Draw an example for Euclid's 3rd postulate.
5. What is quadrilaterals?.
6. What is rhombus?.
7. Construct a triangle ABC in which BC=5cm, and AB+AC=7cm.
8. Construct a quadrilateral ABCD in which AB=3cm, ∟B=120^0, AD=5cm and one of its diagonal is 8cm.
9. Find the area of triangle when its base is 10cm and height is 5cm.
10. Find the area of triangle when three sides of it is 10cm, 12cm & 18cm.
11. How many quadrants comes in the Cartesian.
12. The point(-1, 8) lies in ……. quadrant.
13. How many tangents can be drawn from an external point to the circle?.
14. The biggest chord in a circle is …….
15. Find the volume of cylinder when its height is 4cm and radius is 7cm.
16. Find the total surface area of cube, its side is 6m.
17. Find the probability of getting head when coin is tossed.
18. The probability of an sure event is ……..
19. In the given data, find the range.
    12, 5, 6, 8, 18, 16, 7, 9, 6, 2, 0, 20, 16.
20. Draw distribution table for the above data.

BRIDGE COURSE POST TEST -2021

Class : 10th std. **Subject : Mathematics**
Date: **No.of questions: 20**

1. Show that $\sqrt{2}$ on number line.
2. Simplify by rationalizing denominator $\frac{2}{\sqrt{3}}$
3. State Euclid's 3rd postulate.
4. Draw an example for Euclid's 2nd postulate.
5. The sum of the interior angles of quadrilateral is…….. .
6. What is parallelogram?.
7. Construct a right angled triangle, in which its base is 5cm and height is 7cm.
8. Construct a triangle in which its base is 8cm and vertex angle is 60^0.
9. Write Heron's formula
10. Find the area of triangle in which its perimeter is 42cm, two sides of it 10cm & 18cm.
11. Find any two solutions for x+y=5.
12. What is origin?.
13. What is diameter of circle?.
14. If two times the radius then it's called as……. of the circle.
15. Find the volume of cone when its height is 6cm and diameter of its base is 14cm.
16. Find the LSA of cuboid, l=10m, b=5m & h=4m.
17. The probability lies between the numbers …….. & ……..
18. Find the probability of getting at least one Head when two coins is tossed simultaneously.
19. In the given data, construct distribution table as 0-2, 2-4 ….. 0.02, 2.01, 3.2, 0.25, 1.5, 2.6, 2.9, 3.6, 6.32, 4.5, 3.5, 7.2, 6.3.
20. Draw frequency polygon for the given data.

C.I	0-10	10-20	20-30	30-40	40-50
f	5	15	18	13	16

Bridge course test – Result analysis

Subject: Mathematics Class :

Sl no	Name of the student	Test	Ability1		Ability2		Ability3		Ability4		Ability5		Ability6		Ability7		Ability8		Ability9		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																							
		Pre																							

10		Post																					
11		Pre																					
		Post																					
12		Pre																					
		Post																					
13		Pre																					
		Post																					
14		Pre																					
		Post																					
15		Pre																					
		Post																					
16		Pre																					
		Post																					
17		Pre																					
		Post																					
18		Pre																					
		Post																					
19		Pre																					
		Post																					
20		Pre																					
		Post																					

Subject teacher

Principal/Head master

List of students those 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 : 6th std **Subject : Mathematics**

Sl no	Ability	Activity	Allotted period	Result
1	Simple calculations			
2	Basic operations			
3	Measurements			
4	Tenths and hundreds			
5	Area and its boundary			
6	Ways of multiple and divide			
7	Decimals			
8				
9				
10				

Action plan for remedial teaching

Class : 7th std **Subject : Mathematics**

Sl no	Ability	Activity	Allotted period	Result
1	Concept of fractions and decimals			
2	To draw the histogram			
3	To calculate the perimeter and area of the geometrical figure.			
4	To solve puzzle and word problems in the algebra			
5	Concept of ratio and proportion			
6	Concept of symmetry			
7	To Construction of angles .			
8	Concept of integers			
9	To know the number system.			
10	Concept of geometry			

Action plan for remedial teaching

Class : 8th std Subject : Mathematics

Sl no	Ability	Activity	Allotted period	Result
1	Concept of integers.			
2	To know about fractions and decimals.			
3	To calculate the mean, median and mode.			
4	To know about simple equations.			
5	To understand the angles and lines.			
6	To understand the properties of triangles.			
7	Concept of rational numbers.			
8	To calculate the perimeter and area.			
9	Concept of exponents.			
10	To understand the concept of algebraic expressions			

Action plan for remedial teaching

Class : 9th 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			

Action plan for remedial teaching

Class : 10th std **Subject : Mathematics**

Sl no	Ability	Activity	Allotted period	Result
1	To know about numbers.			
2	Concept of Euclid's geometry.			
3	Concept of quadrilaterals.			
4	To construct the triangles.			
5	To calculate the area of triangle by using Heron's formula.			
6	To understand the concept of coordinate geometry.			
7	To know about concept of circles and its properties.			
8	To calculate the area and volumes of different geometrical solids.			
9	Concept of probability.			
10	To understand the concept of statistics, frequency polygon			

NOTE:

Dear teachers, If you want any change you can make it.