

PUSHPAGIRI HIGH SCHOOL, HOSAGAVI.

Summative Assessment ~01

Time : 90min

Class: 8th

Subject : Mathematics

Marks:40

I. Fill in the Blanks

8x1=8

1. In equation $3x+5=0$, 5 is a _____.
2. _____ graph representation of data using picture or symbols.
3. The sum of measures of the external angles of any polygons is _____.
4. The product of two rational number is always a _____.
5. Square root of a is denoted by _____.
6. When a number is multiplied by itself three times are known as _____ number.
7. A regular polygon is both equiangular and _____.
8. The value of $5^3=$ _____

II. State whether True or False

3x1=3

1. All rectangles are squares.
2. The rational number 1 is the **multiplicative identity** for rational numbers.
3. The cube of a single digit number may be a single digit number.

III. Answer the following:

3x2=6

1. Solve the given equation and check your result: $4z + 3 = 6 + 2z$.
2. Find and write the property used under multiplication
 $\frac{-13}{17} \times \frac{-2}{7} = \frac{-2}{7} \times \frac{-13}{17}$.
3. What are the difference between algebraic Expression and Equation? Give examples

IV. Answer the following:

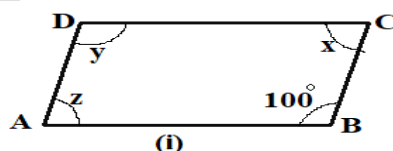
5x3=15

1. When a die is thrown , list the outcomes of an event of getting
(i) a prime number (ii) not a prime number (iii) a number greater than 5
2. Find the square of number $(105)^2$.
3. Write Pythagorean triplet whose one member is 16
4. Find Square root by division method 529
5. Find the cube root by prime factorisation method 15625.

V. Answer the following

2x4=8

1. (a) Write kinds of quadrilaterals and write atleast two properties.
(b) find the value of the unknowns x, y, z.



2. A group of 360 people were asked to vote for their favourite season from the three seasons rainy winter and summer .
 - a) which season got the most votes?
 - b) Find the central angle of each sector.
 - c) Draw a pie chart to show this information

Season		No. of votes
Summer		90
Rainy		120
Winter		150