

HOLIDAY HOMEWORK – 2019 – 2020**Class: VII****Subject:**

MATHEMATICS

<u>S. No</u>	<u>Topic</u>	<u>Activity</u>	<u>Time period</u>	<u>Skill enhanced / learning outcomes</u>	<u>Annexure No</u>
1	Conversion of units	Preparation of chart for conversion of units	5 hours	Analyzing and application skill	A
2	History of mathematician	Collecting information	3hours	Intellectual skill	B
3	Magic squares	Creating magic squares	6 hours	Creative and Application skill	C
4	Types of angles and types of triangles	Preparing scrap book	10 hours	Understanding skill	D
5	Sums in Integers , Fractions and decimals	Solving sums (HOTS)	6 hours	Problem solving skill and application skill	E

Annexure:

A : Prepare a chart for the conversion of units of length , weight, and capacity.

B : Write an essay about an Indian mathematician and his/her contributions in mathematics.

C : Create magic squares 3x3, 4x4, 5x5, and 6x6 7x7, 8x8, using integers.

D : Prepare a scrap book for types of angles and and types of triangles.

E : Solve Problems.(10 NO.)

TEACHER'S NAME: Mrs. SHANMUGAPRIYA G**SIGNATURE****Recommended By**
Vice Principal**Approved By**
Principal

E. Solve the following.

- 1) Mt. Everest is at a height of 8850 m . Its base is an elevation of 5400m. The temperature here drops at the rate of 1 degree per 100 meters. If the temperature at the base is -5°C What is the temperature at the top?
- 2) Find x , if $9 - 5\frac{7}{8} = x - \frac{1}{8}$
- 3) A carpenter cuts off from a plank $\frac{5}{12}$ of its length and then $\frac{6}{7}$ of what it remains. If the remaining piece is $2\frac{1}{2}$ m long, find the original length of the plank.
- 4) A man buys a box of fruits containing 286 fruits. Out of these $\frac{1}{2}$ of the fruits are apples and the rest pears . $\frac{4}{13}$ of the pears are rotten . He sells the good pears at Rs. $4\frac{1}{11}$ each . How much money does he receive on selling the good pears?
- 5) Sheela bought $45\frac{1}{4}$ metres of fabric. She used $38\frac{1}{3}$ metre to make 12 curtains and half of the remaining to make four cushion covers? How much fabric in metres was used to make a cushion cover?
- 6) By which decimal number should 0.0001 be divided to get 0.01?
- 7) A party of 20 people went to restaurant. They ordered a meal of Rs.36.60 each, but 5 of them had forgotten to bring money. In order to settle the bill, how much more did the other 15 people have to pay?
- 8) A water pipe has the inner diameter of $3\frac{3}{4}$ cm and a wall of thickness of $\frac{5}{7}$ cm . What is the outer radius of the pipe?
- 9) Simplify $(5\frac{1}{4} - 2\frac{1}{3}) + \frac{1}{3}$ of $(5\frac{1}{2} \div 2\frac{1}{5})$
- 10) A flask weighs 64.27 g when empty and 150.35 g when full of water . Find its weight when (i) it is half full of water (ii) 0.75 times full of water