

NEW ERA HIGH SCHOOL, PANCHGANI

SUBJECT: MATHEMATICS		CLASS VIII	ASSIGNMENT 1
Subject	Mathematics		
CHAPTER	Rational number		
TIMELINE	1 Week (27 th April to 2 nd May)		
Topics	<input type="checkbox"/> Recall natural number, whole number, integers, rational numbers <input type="checkbox"/> Additive inverse, multiplicative inverse, reciprocal <input type="checkbox"/> Number line, representation of rational number on a number line <input type="checkbox"/> The rational number between two rational numbers		
Submission	Students should solve the worksheet attachment and submit by 2 nd May 2020 For the queries, you may contact me on devendra.patel@nehs.in the hard copy to be submitted as and when you report to the school Please note the above activities are part of your internal assessment and it is mandatory.		
Moral values	Rational: based on or in accordance with reason or logic. Every fact that we read or told should be accepted based reason or logic.		
Resource	Class VI textbook of Mathematic by N.C.E.R.T To download the textbook click the following link http://ncert.nic.in/textbook/textbook.htm?hemh1=0-16		
Activities	1. Research and development: Step 1: Draw a number line, mark interval of 1 cm so that we can represent numbers from -10 to + 10 on the number line Step 2: Divide every number on the number line by 2 Step 3: Repeat step 1 and divide each number by 3, 4, 5 and 6 Observe and conclude based on how many rational numbers are between two whole numbers? What will happen if we keep on dividing by 7, 8, 9 and so on? 2. To draw a neat number line and represent the following number on it Set 1 : -6, -4.3, -0.5, 0, 3.4, 5.5, 7.3 Set 2 : $\frac{-19}{6}, \frac{-17}{4}, \frac{6}{8}, \frac{11}{5}, \frac{1}{3}$		
Questions	1. Define a) Natural number b) Whole number c) Integers d) Rational number 2. Arrange the following in descending order $\frac{8}{9}, \frac{-9}{8}, \frac{3}{2}, 0, \frac{2}{5}$ 3. Arrange the following in ascending order $\frac{-3}{7}, \frac{-9}{8}, \frac{3}{2}, \frac{23}{42}, \frac{11}{-28}$ 4. Do as directed a) Write the Additive and multiplicative inverse of the following: 3, -5, $\frac{2}{3}, \frac{-6}{5}$		

b) Write reciprocals of the following : 15, -7, ,

c) Find the sum of additive inverse of $\frac{7}{9}$ and reciprocal of -9

d) Subtract multiplicative inverse of $\frac{5}{3}$ from $\frac{9}{6}$.

5. Find five rational numbers between the following set of numbers and represent them on the appropriate number line.

a) -4 and 7 b) $\frac{5}{7}$ and $\frac{5}{3}$

6. Solve the following

a) $\frac{-3}{7} + \left(\frac{-5}{21}\right) - \frac{8}{14}$ b) $\frac{-2}{3} - \frac{3}{4} - \frac{4}{5}$ c) $\frac{8}{9} \left(\frac{-3}{4} + \frac{2}{16}\right)$ d) $\frac{2}{3} \times \frac{5}{7} + \frac{2}{3} \times \frac{3}{14}$

Subject Teacher: Mr. Devendra Patel