



# INDIAN SCHOOL DARSAIT

## DEPARTMENT OF MATHEMATICS



Subject : MATHEMATICS	Topic : RATIONAL NUMBERS	Date of Worksheet : 10/04/2018
Resource Person: Mrs. Indu.P	Date of submission : 17/04/2018	
Name of the Student _____	Class & Division: _____	Roll Number : _____

SL.No.	SECTION A [BASIC SKILLS]	
1.	$\frac{-4}{5} - \frac{21}{10}$	
2.	$\frac{-2}{3} + 4$	
3.	$\frac{-9}{11} \times \frac{22}{63}$	
4.	$\frac{7}{18} \div \frac{-14}{21}$	
5.	Simplify: (i) $\frac{5}{6} + \frac{7}{18} - \frac{11}{12}$ (ii) $1\frac{1}{3} - 2\frac{2}{3}$	
Sl.No.	SECTION B – [CHAPTER BASED QUESTIONS]	Marks
1	The sum of two rational numbers is $\frac{5}{18}$ . if one number is $\frac{1}{8}$ , find the other.	2
2	Simplify $(\frac{-6}{7} + \frac{18}{28}) \times \frac{-7}{5}$	2
3	Write rational numbers which are equal to its reciprocals .	2
4	Write the rational number which is equal to its additive inverse.	1
5	Name the property which allows you to multiply three rational numbers in any order.	1
6	What is the sum of any number and its additive inverse?	1
7	Find the additive inverse and multiplicative inverse of $\frac{-2}{3}$	1
8	By which rational number should $\frac{-7}{85}$ be multiplied to obtain $\frac{1}{17}$ ?	1
9	Is $1\frac{3}{5}$ , the multiplicative inverse of $\frac{5}{8}$ ? Why or why not?	2
10	What should be subtracted from $[\frac{3}{4} + \frac{1}{3} + \frac{2}{5}]$ to get 1 ?	2



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11	Find using distributive property: (i) $\frac{8}{9} \times \frac{1}{2} + \frac{-1}{3} \times \frac{8}{9}$ (ii) $\frac{16}{17} \times \frac{1}{9} + \frac{16}{17} \times \frac{-1}{9}$ (iii) $\frac{1}{5} \times \frac{1}{2} - \frac{1}{5} \times \frac{3}{2}$	3
12	Simplify using appropriate properties $\frac{1}{2} \times \frac{7}{-5} - \frac{3}{4} \times \frac{2}{3} + \frac{2}{3} \times \frac{1}{4}$	3
13	What is the perimeter of a quadrilateral whose four sides measure $3\frac{1}{6}$ cm, $2\frac{3}{4}$ cm, $4\frac{5}{12}$ cm and $2\frac{1}{2}$ cm.	3
<b>SECTION C [HOT QUESTIONS]</b>		
1	The product of two rational numbers is $\left(\frac{-28}{81}\right)$ . If one of them is $\frac{-2}{3}$ , then find the other.	3
2	Verify that $\frac{-1}{2} + \left[\left(\frac{-4}{3}\right) + \frac{3}{7}\right]$ and $\left[\left(\frac{-1}{2}\right) + \frac{3}{7}\right] + \left(\frac{-4}{3}\right)$ are there same	4
3	Find: $\frac{5}{22} + \frac{3}{7} + \left(\frac{-8}{21}\right) + \left(\frac{-6}{11}\right)$	4
4	In a school $\frac{3}{7}$ of the students are girls. If there are 240 boys, find the number of girls.	3