SAINIK SCHOOL GOPALGANJ SUB: MATHEMATICS CLASS - VIII

ASSIGNMENT

Chapter 1: Rational Numbers

Worksheet-I

1. What should be added to -5/4 to get -1?									
							0/4		
(1)	-1/4	(11)	1/4	(111)	1	(IV)	-3/4		
2. What s	should b	e suk	otracte	d fror	n -5/4	to get	-1?		
(1)	-1/4	(11)	1/4	(III)	1	(IV)	-3/4		
3. Which of the following is the identity element?									
(1)	1 (II) -	1	(III)	0	(IV)	None	of th	ese	
4. Which of the following is the Multiplicative identity for rational numbers?									
(I) 1 (II) -1 (III) 0 (IV) None of these									
5. Which of the following is neither appositive nor a negative rational									
number?									
(1)	1	(II)	0	(III)	Such	a rati	onal n	umber does not exis	st
()	1) None	,		(III)	Such	a rati	onal n	umber does not exis	st
()) None	of th	ese	, ,				umber does not exis	st
(IV) None	of th	ese ving lie	s betv	ween () and	-1?	umber does not exis	st
(IV) None n of the f 0 (II)	of th follow	ese ring lie: (III)	s betv -2/3	ween (and (IV)	-1? 4/3	umber does not exis	st
(IV 6. Which (I) 7. Which) None n of the f 0 (II)	of the follows: -3 follows:	ese ving lies (III) ving is t	s beto -2/3 the re	ween (and (IV)	-1? 4/3 a?		st
(IV 6. Which (I) 7. Which	None of the f () (II) of the f -a	of the following of the following of the following of the following (II)	ese ving lies (III) ving is t	s between the second se	ween (eciproc 1/a) and (IV) cal of a	-1? 4/3 a? (IV)	-1/a	st
(IV 6. Which (I) 7. Which (I) 8. Which	None of the f of the f of the f -a of the f	of the following of the	ese ving lies (III) ving is to	s between section between sections in the results that the proof of th	ween (eciproc 1/a roduct	and (IV) al of a	-1? 4/3 a? (IV) and	-1/a	t
(IV 6. Which (I) 7. Which (I) 8. Which	None of the f of the f of the f -a of the f -1/6	of th ollow -3 ollow (II) ollow	ese ving lies (III) ving is to a ving is to	s between the result of the result of the position (III)	ween (eciproc 1/a roduct -16/6	of 7/8	-1? 4/3 a? (IV) and -	-1/a -4/21? -147/16	t

10. W	nich of the follo	wing is the	recipro	ocal of	the reciprocal of a rational		
numbe	r?						
(l) -1	(II) 1	(III)	0	(IV) The number itself		
Works	heet-II						
1. Ass	ociative prope	rty is not foll	lowed	by whi	ch type of numbers?		
2	_ is the identity	y for the add	dition c	of ration	nal numbers.		
(a)	1 (b)	0 (c)	1	(d) 1			
3. Wh	3. What is the multiplicative identity for rational numbers?						
4. What is the additive inverse of 3/5?							
5. How many reciprocals does zero have?							
6. Wri	ie.						
(i) The rational number that does not have any reciprocal at all.							
(ii) The rational numbers those are equal to their reciprocals.							
(iii) The rational number that is equal to its negative.							
7. Give a rational number which when added to it gives the same number							
8. By what rational number should 22/7 be divided, to get the number -							
11/2	24?						
9. Rep	resent the follo	owing ration	al nun	nbers o	on the number line.		
(i)	3/10 (ii) 8	3/7	(iii) ´	1.345	(iv)21/7		
10. If you subtract 1/8 from a number and multiply the result by 1/4, you							
get 1/16. What is the number?							
11. Which of the following can be expressed as terminating or non -							
te	rminating?						
(a	1/3 (b)	-14/15	(c)	-38/8	1		
12. Fi	nd two rational	numbers be	etweer	i (i) -3	and 3. (ii) 0 and 1.		
13. Insert six rational numbers between:							
(i)	-1/4 and -2/5	(ii) 21/12	and 12	2/21.			

14. Find two rational and two irrational numbers between 1/8 and 2/9.

Worksheet-III

- 1. Write three rational numbers occurring between 1/3 and 4/5.
- 2. Multiply the negative of 2/3 by the inverse of 9/7.
- 3. What should be added to -16/3 to make it 1/9?
- 4. What should be subtracted from 5/8 to make it -1?
- 5. Write different properties of a rational number.
- 6. Represent 3/4 and 8/9 on a number line.
- 7. Find the greater of the two -12/5 and 4/9
- 8. Multiply the negative of 29/2 by its inverse.
- 9. Write a rational number equivalent to 9/10 having 90 as numerator.
- 10. Write a rational number equivalent to 18/29 having 87 as denominator.
- 11. Write 2/3, -4/9, -8/11 in ascending order.
- 12. Write 2/3, -4/9, -8/11 in descending order.
- 13. Fill in the blanks:

(i) The product of a number and its	product is				
(ii) The rational number	has no reciprocal.				
(iii The reciprocal of the reciprocal of a number is					
iv) The rational number	is neither positive nor negative.				
v) is the only rational r	number which is equals its additive				
nverse.					

14. Write:

- (i) A rational number which has no reciprocal.
- (ii) A rational number whose product with a given rational number is equal to the given rational number.
- (iii) A rational number which is equal to its reciprocal.
- 15. Find three rational number between 3/7 and 2/3

- 16. The product of two rational numbers is 28/81. If one of them is 2/3 then find the other.
- 17. Find 3/7 + (-6/11) + (-8/21) + (5/22)
- 18. Write additive inverse of the following:
 - (a) -7/19 (b) 21/112
- 19. Verify that -(-x) = x for
 - (a) x = 11/15 (b) x = -13/17
- 20. Represent -2/11,-5/11,-9/11 on the number line.
- 21. Write five rational numbers which are smaller than to 2.
- 22. Write all properties of rational numbers.
- 23. Write definition of rational numbers. Give three examples.
- 24. What is the additive identity of rational numbers?
- 25. What is the multiplicative identity of rational numbers?
