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## **WORK SHEET SUBJECT- MATHS** CHAPTER 9- RATIONAL NUMBERS

## **CLASS- VII**

(1)List five rational numbers	between:	
(a) -1 and 0	(b) -2 and -1	
(c) $\frac{-4}{5}$ and $\frac{-2}{3}$	$(d)^{\frac{1}{2}}$ and	3
(e) 2/3 and 3/4		

(2) Write four more rational numbers in each of the following patterns:

(i) 
$$\frac{-3}{5}$$
,  $\frac{-6}{10}$ ,  $\frac{-9}{15}$ ,  $\frac{-12}{20}$ , --- ......  
(ii)  $\frac{-1}{2}$ ,  $\frac{-2}{8}$ ,  $\frac{-3}{12}$ ,--- .....

(i) 
$$\frac{1}{7}$$
 (ii)  $\frac{1}{9}$  (iii)  $\frac{1}{9}$  aw the number line and represent the following ra

(3) Give four rational numbers equivalent to
$$(i) \frac{-2}{7} \qquad (ii) \frac{5}{-3} \qquad (iii) \frac{-4}{9}$$
(4) Draw the number line and represent the following rational numbers on it:
$$(i) \frac{3}{4} \qquad (ii) \frac{-5}{8} \qquad (iii) \frac{-7}{4} \qquad (iv) \frac{7}{8}$$
(5) Which of the following rational numbers represent the same rational numbers?
$$(i) \frac{-7}{21} and \frac{3}{9} \qquad (ii) \frac{-16}{20} and \frac{20}{-25} \qquad (iii) \frac{-2}{-3} and \frac{2}{3}$$

$$(iv) \frac{-3}{5} and \frac{-12}{20} \qquad (v) \frac{8}{-5} and \frac{-24}{15} \qquad (vi) \frac{1}{3} and \frac{-1}{9}$$

$$(vii) \frac{-5}{-9} and \frac{5}{-9}$$
(6) Rewrite the following rational numbers in simplest form-
$$(i) \frac{-8}{10} \qquad (iii) \frac{25}{10} \qquad (iii) \frac{-44}{10} \qquad (iv) \frac{-8}{10}$$

(i) 
$$\frac{-8}{9}$$
 (ii)  $\frac{25}{45}$  (iii)  $\frac{-44}{72}$  (iv)  $\frac{-8}{10}$  (7) Solve a)  $1\frac{1}{2} + \frac{3}{4}$  b)  $\frac{4}{9}$  X- $\frac{3}{8}$  c)  $\frac{3}{16} \div (-\frac{7}{20})$ 

(8) Salma finished her homework in  $\frac{7}{12}$  hour. Vijay finished the same homework in  $\frac{3}{4}$  hour. Who worked

longer? By what fraction was it longer?

(9) Find a) 
$$\frac{-4}{9} \div 5$$
 b)  $-2\frac{1}{3} + \frac{3}{5}$  c)  $-2\frac{3}{5} \times 3$ 

(10) Arrange the following rational numbers in ascending order:

(i)  $-\frac{3}{8}, \frac{5}{6}, -\frac{6}{8}, \frac{2}{4}, -\frac{1}{3}$  (ii)  $\frac{4}{6}, -\frac{3}{8}, \frac{6}{12}, -\frac{5}{16}$  (iii)  $2/3, -3/4, 2/5$ 

(11) Simplify:

(i)  $\frac{2}{3} + \frac{1}{6} - \frac{2}{9}$  (ii)  $7\frac{5}{6} - 4\frac{3}{8} + 2\frac{7}{12}$ 

(12) Solve:

(i) 
$$-\frac{3}{8}, \frac{5}{6}, -\frac{6}{8}, \frac{2}{4}, -\frac{1}{3}$$
 (ii)  $\frac{4}{6}, -\frac{3}{8}, \frac{6}{12}, -\frac{5}{16}$  (iii)  $\frac{2}{3}, -\frac{3}{4}, \frac{2}{5}$ 

Solve:  
(i) 
$$-\frac{7}{11} \times \frac{3}{5}$$
 (ii)  $-\frac{3}{5} \times 25$  (iii)  $-3\frac{4}{15} \times 24$   
(iv)  $-3\frac{1}{8} \times 4\frac{10}{11}$  (v)  $-\frac{3}{10} \div \frac{10}{3}$  (vi)  $-4\frac{3}{5} \div \frac{4}{5}$   
(vii)  $-5\frac{4}{7} \div 1\frac{3}{10}$  (viii)  $-4 \div 2\frac{2}{5}$  (ix)  $-6 \div \frac{3}{2}$ 

(13) Divide:  
(i) 
$$-\frac{3}{8}$$
 by 4 (ii)  $-\frac{9}{16}$  by 6 (iii) -9 by  $\frac{3}{16}$  (iv) -10 by  $\frac{100}{3}$   
(14) Satpal walks 2/3 km from place P towards east and then from there 12/7 km towards

west. Where will he be now from P?

(15) Multiply -6/13 by the reciprocal of -7/6 \*\*\*\*\*