

INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics *Worksheet- Rational Numbers* 15-04-20

OBJECTIVE TYPE (1 Mark)										
Q.1.	Th	The multiplicative inverse of $1\frac{3}{7}$								
	Α	$\frac{-7}{10}$	В	$\frac{7}{10}$	С	$\frac{10}{7}$	D	$\frac{-10}{7}$		
Q.2.	Th	The additive inverse of $\frac{-5}{-6}$								
	Α	$\frac{-5}{6}$	В	$\frac{5}{6}$	С	$\frac{-6}{5}$	D	$\frac{6}{5}$		
Q.3.	Name the property used: $\frac{-3}{7} \times \frac{4}{5} = \frac{4}{5} \times \frac{-3}{7}$									
	A	Associative	В	Distributive	С	Closure	D	Commutative		
Q.4.	Th	The additive identity for addition of rational numbers is								
	A	1	В	-1	С	0	D	The number itself		
Q.5.	Na	Name the property illustrated: $\frac{-33}{25} \times 1 = \frac{-33}{25}$								
	Α	1 is the multiplicative identity	В	1 is the additive identity	С	Commutative	D	None of these		
Q.6.	Ide	Identify the rational number that lies between $\frac{-2}{5}$ and $\frac{-3}{5}$								
	Α	$-\frac{4}{10}$	В	$-\frac{3}{10}$	С	$-\frac{5}{10}$	D	$-\frac{2}{10}$		
Q.7.	Q.7. Name the property used: $\frac{3}{7} \times (\frac{3}{4} - \frac{4}{5}) = \frac{3}{7} \times \frac{3}{4} - \frac{3}{7} \times \frac{4}{5}$									
	Α	Associative	В	Distributive	С	Multiplicative identity	D	Additive identity		

Q.8.	A rational number between $\frac{-1}{2}$ and $\frac{1}{2}$ is										
	Α	0	В	2	С	1	D	-1			
Q.9.	Th	The multiplicative identity for rational numbers is									
	Α	2	В	0	С	1	D	None of these			
Q.10.	Th	The multiplicative inverse of $\frac{3}{10} + \left(\frac{-2}{5}\right)$									
	A	-5	В	$\frac{7}{10}$	С	$\frac{5}{10}$	D	-10			
Fill in the blanks(1mark)											
Q.11.	The property that allows to compute $\frac{1}{3} \times (6 \times \frac{-2}{11})$ as $(\frac{1}{3} \times 6) \times \frac{-2}{11}$ is										
Q.12.	The multiplicative inverse of $4\frac{1}{3}$ is										
Q.13.	The number of rational numbers between -6 and -5 is										
Q.14.	The rational number that is equal to its negative is										
Q.15.	Zero has reciprocal.										
SECTION B (2 marks)											
Q.16.	Find the additive inverse of $\left(\frac{4}{8} \times \frac{1}{7}\right) + \left(\frac{3}{8} \times \frac{1}{7}\right)$.										
Q.17.	Use distributive property to find the value of $\frac{-8}{17} \times \frac{-5}{6} + \frac{3}{7} \times \frac{-8}{17}$.										
Q.18.	Find the product of $\frac{13}{15}$ and additive inverse of $\frac{-5}{26}$.										
Q.19.	Ve	Verify that $-(-y) = y$ for $y = \frac{-7}{25}$.									
Q.20.	Is $\frac{6}{13}$ the multiplicative inverse of $2\frac{1}{6}$? Why or why not?										
SECTION C (4 marks)											
Q.21.	Insert 6 rational numbers between $\frac{-2}{7}$ and $\frac{-3}{11}$.										

Q.22.	Verify $\frac{1}{7} \times \{\frac{-3}{5} + \frac{6}{7}\} = [\frac{1}{7} \times \frac{-3}{5}] + [\frac{1}{7} \times \frac{6}{7}]$								
Q.23.	Use appropriate properties to find the value of $\frac{-2}{3} \times \frac{4}{5} + \frac{7}{10} + \frac{4}{5} \times \frac{-1}{6}$ also mention the property used in bracket.								
Q.24.	Draw a single number line to represent the following sets of rational numbers on it. $\frac{-2}{9}, \frac{-5}{9}, \frac{-7}{9}, 0, 1, \frac{4}{9}$								
Q.25.	Insert 6 rational numbers between $-\frac{3}{2}$ and $-\frac{7}{5}$								
Answers									
	1	В	2	А	3.	D	4	С	
	5	А	6	С	7	В	8	А	
Answers	9	С	10	D	11	Associative property	12	$\frac{3}{13}$	
Ans	13	Infinite	14	1 and (-1)	15	No	16	$\frac{-1}{8}$	
	17	$\frac{4}{21}$	18	$\frac{1}{6}$	20	Yes	23	$\frac{1}{30}$	
