

INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics WORKSHEET (2025-26) Rational Numbers

Multiple Choice Questions									
Q.1.	What is the sum of the additive inverse and multiplicative inverse of 5?								
	А	$\frac{-2}{5}$	В	$\frac{-24}{5}$	С	<u>-2</u> 25	D	24 5	
Q.2.	The multiplicative inverse of $-2\frac{3}{7}$								
	Α	$\frac{-17}{7}$	В	$\frac{17}{7}$	С	$\frac{-7}{17}$	D	$\frac{-11}{7}$	
Q.3.	The additive inverse of $\left(\frac{-5}{7} - \frac{2}{-21}\right)$								
	Α	$\frac{13}{21}$	В	$\frac{-13}{21}$	С	$\frac{21}{13}$	D	0	
Q.4.	The additive inverse of a negative rational number is:								
	Α	a positive rational number	В	a negative rational number	С	Both A & B	D	None of these	
Q.5.	There are rational numbers between (-1) and (-2).								
	А	0	В	1	С	10000	D	Infinite	
Q.6.	Name the property used: $\frac{2}{3} \times \left(\frac{4}{7} + \frac{5}{9}\right) = \left(\frac{2}{3} \times \frac{4}{7}\right) + \left(\frac{2}{3} \times \frac{5}{9}\right)$								
	Α	Closure	В	Commutative	С	Associative	D	Distributive	
Q.7.	The product of $\frac{3}{7} \times \frac{14}{25} \times (\frac{-35}{36})$								
	А	$\frac{7}{30}$	В	$\frac{-7}{30}$	С	$\frac{32}{42}$	D	$\frac{30}{7}$	
Q.8.	The product of a rational number and its multiplicative inverse is:								
	А	-1	В	0	С	1	D	Cannot be determined	
Q.9	The product of $3\frac{2}{5}$ with the reciprocal of $-2\frac{4}{15}$								
	Α	$\frac{-3}{2}$	В	$\frac{-2}{3}$	С	$\frac{-3}{10}$	D	$\frac{3}{10}$	
Q.10	If $x = \frac{-11}{15}$, then $-(-x)$ is:								
	А	11 15	В	<u>-11</u> 15	С	<u>-15</u> 11	D	15 11	

	LONG ANSWER QUESTIONS:							
Q.11	Find the additiv	Find the additive inverse of $(-7\frac{3}{4} \times 5\frac{7}{8})$.						
Q.12	Find the value	alue of $\frac{5}{6} \times \frac{7}{11} + \frac{3}{4} \times \frac{5}{6}$ using suitable property.						
Q.13	Name the property used: a. $\frac{-3}{7} + \frac{5}{19} = \frac{5}{19} + \frac{-3}{7}$ b. $\frac{3}{4} + \frac{-5}{8} = \frac{1}{8}$							
Q.14	Verify: a. $\frac{5}{7} \times \left(\frac{4}{7} + \frac{-11}{12}\right) = \left(\frac{5}{7} \times \frac{4}{7}\right) + \left(\frac{5}{7} \times \frac{-11}{12}\right)$ b. $\frac{2}{7} \times \left(\frac{3}{5} - \frac{-7}{12}\right) = \left(\frac{2}{7} \times \frac{3}{5}\right) - \left(\frac{5}{7} \times \frac{-7}{12}\right)$							
Q.15	Use appropriate property and find the value of a. $\frac{3}{4} \times \frac{-2}{5} + \frac{1}{3} \times \frac{9}{5} - \frac{3}{4} \times \frac{4}{9}$ b. $\frac{5}{7} \times \frac{-2}{9} + \frac{15}{18} \times \frac{6}{5} - \frac{5}{7} \times \frac{8}{11}$							
Q16	Represent on a same number line. a. $\frac{1}{5}, \frac{-2}{5}, 0, \frac{3}{5}, 1$ b. $\frac{3}{7}, 0, \frac{-5}{7}, \frac{-4}{7}$							
Q.17	Find 6 rational numbers between $\frac{-2}{5}$ and $\frac{-3}{7}$.							
Q.18	If $p = \frac{-2}{5}$, $q = \frac{3}{10}$ & $r = \frac{-7}{15}$. Show that $p \times (q + r) = (p \times q) + (p \times r)$							
Q.19.	Fill in the blanks: (i) The product of two rational numbers is always is (ii) The rational number has no reciprocal. (iii) The reciprocal of the reciprocal of a number is (iv) is the multiplicative identity for a rational number.							
Q.20.	reach the finish Name Albin Ben Ella Ruby a. Find the race. b. Who wo	participated in a sack race. In line. Time taken (in minute) $ \frac{33}{40} $ $ \frac{23}{35} $ $ \frac{31}{40} $ $ \frac{21}{35} $ In the taken by Albin and the race?	The table shows the time each of them took to and Ben in the order according to the time taken.					