

INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics

WORKSHEET 2 – Rational Numbers

Date: 25/09/2021

Multiple Choice questions										
Q.1.	If $\frac{4}{3} = \frac{x}{12}$ then x is									
	Α	3	В	16	С	19	D	12		
Q.2.	The standard form of rational number $\frac{-21}{28}$									
	A $\frac{-3}{4}$ B $\frac{3}{4}$		С	$\frac{3}{7}$	D	$\frac{-3}{7}$				
Q.3.	Which of the following rational numbers is not to equivalent to $\frac{3}{5}$?									
	A	$\frac{6}{10}$	В	$\frac{-3}{-5}$	С	$\frac{9}{15}$	D	$\frac{12}{24}$		
Q.4.	Which of the following cannot be a rational number?									
	A $\frac{0}{10}$ B $\frac{0}{-10}$		С	$\frac{6}{0}$	D	-1				
Q.5.	The sum of $\frac{5}{4} + \frac{-25}{4}$ is									
	Α	A 5 B -5		C	1	D	-1			
Q.6.	The product of $\frac{2}{9}$ and $\frac{27}{8}$ is									
	A	$\frac{5}{4}$	В	$\frac{25}{72}$	С	$\frac{3}{4}$		$\frac{54}{9}$		
Q.7.	Divide $\frac{7}{12} \div \frac{-7}{12}$, the result is									
	Α	7	В	-7	С	1	D	-1		
Q.8.	Th	e reciprocal of a n	ega	tive rational numbe	r is					
	A	always positive	В	always negative		always 1	D	always 0		
Q.9.	 p: Every fraction is a rational number. g: Every rational number is a fraction. 									
	A	p is true and q is false.	В	p is false and q is true.		Both p and q are true.	D	Both p and q are false.		
Q.10.	Which of the following rational numbers is negative?									
	A	$\frac{-3}{-7}$	В	$\frac{-5}{-8}$	С	$\frac{9}{8}$	D	$\frac{3}{-7}$		
Q.11.	In dei	the standard form	n of ys	a rational number, t	he o	common factor o	f nu	merator and		
	A	0	В	1	С	-2	D	2		
Q.12.	Но	w many rational r	num	bers are there betw	een	two rational num	nber	s?		
	A	1	В	0	C	Infinite	D	100		

Q.13.	In the standard form of a rational number, the denominator is always									
	A	0	В	Negative integer	С	Positive integer	D	1		
Q.14.	Which is greater number in the following.									
	A $\frac{-1}{2}$ B 0		0	С	$\frac{1}{2}$	D	-2			
Q.15.	Wł	nich of the follo	wing st	tatements is correct	?					
	Α	$\frac{3}{-8} > \frac{-12}{-32}$	В	$\frac{3}{-8} = \frac{-12}{32}$	С	$\frac{3}{-8} < \frac{-12}{32}$	D	$\frac{3}{5} > \frac{4}{3}$		
Q16.	 Fill in the blanks: - a) The numerator of the rational number - ⁴/₃ is b) The rational number is neither positive nor negative. c) On a number line, ⁻¹/₂ is to the of zero (0). d) Additive inverse of ²/₃ is e) The reciprocal of does not exist. 									
Q17.	<u>Ma</u>	itch column I Colu i ii iii iv	$\frac{1}{5} \div \frac{1}{2}$ $\frac{5}{7} \div \frac{1}{2}$ $0 \times \frac{5}{9}$ $\frac{-2}{3} - \frac{1}{3}$ The rec	$\frac{15}{21}$	Colu a b c d	ng: Jmn II -1 2 0 1 -2				
		V	7	7	e	-2]		
Q18.	Compare and put the correct symbol [>, < and =]									

	State whether the following statements given are True or False.									
Q19.	 a. Every natural number is a rational number but every rational number need not be a natural number. b. Zero is the smallest rational number. c. The product of two rational numbers is a rational number. d. The rational numbers ⁻¹²/_r and ⁻⁷/_r are on the opposite sides of zero on the number 									
		line.		-5 -17						
	Case Study: Numbers are extremely useful in everyday life. That is probably one of the main reasons we all learn how to count and add and subtract from a very young age. Numbers help us to count and to measure out quantities of different items in various fields like retail, buying, catering, publishing etc. Every normal person uses numbers in his daily life. After knowing the importance of Rational numbers, try and improve your knowledge about them by answering the following questions on real life-based situations.									
Q20.			<u></u>	Ration	al	Numbers				
I	From a rope 68 m long, pieces of equal size are cut. If length of one piece is $4\frac{1}{4}$ m, find the number of such pieces.									
	A	1	В	12	С	16	D	10		
II	If 12 shirts of equal size can be prepared from 27m cloth, what is length of cloth required for each shirt?									
	A	2 1 <u>4</u> m	В	$4\frac{1}{4}m$	С	$\frac{1}{4}$ m	D	$1\frac{1}{4}m$		
	Ro	hit, Peter and Sa	ntos	h walk around a	circu	ılar park. They take	$\frac{1}{3}$ hou	Irs, $\frac{1}{5}$ hours and		
III	$\frac{1}{2}$ hours to complete one round. What is the total time taken by them to complete a round in minutes?									
	A	72 minutes	В	50 minutes	С	60 minutes	D	62 minutes		
IV	Jes	sy rides the bicy	cle 5	$\frac{1}{3}$ km each day.	How	far will he ride in 4	$\frac{1}{2}$ day	s?		
	A	46 Km	В	24 Km	C	16 Km	D	16 Km		
V	A c kei	lrum of kerosene osene oil is still l	: oil i eft ii	is $10\frac{1}{4}$ full. Wher n the drum.	$15\frac{1}{2}$	litres of oil is drawn	from i	t. How much		
	A	$4\frac{1}{4}$ L	В	$5\frac{1}{4}L$	С	$3\frac{1}{4}L$	D	$4\frac{3}{4}$ L		

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Answers:											
1	16	2	$\frac{-3}{4}$	3	$\frac{12}{24}$	4	$\frac{6}{0}$	5	-5		
6	$\frac{3}{4}$	7	-1	8	always negative	9	p is true and q is false.	10	$\frac{3}{-7}$		
11	1	12	Infinite	13	Positive integer	14	$\frac{1}{2}$	15	$\frac{3}{-8} = \frac{-12}{32}$		
16	a) -4 , b) 0 , c) left , d) - ² / ₃ e) 0	17	i→d, ii → c, iii →a , iv →e, v→b	18	i. = , ii > , iii < , iv < , v >	19	a. True b. False c. True d. True e. False		-		
20 I	16	20 II	2 ¹ / ₄ m	20 III	62 minutes	20 IV	24km	20 V	$4\frac{3}{4}L$		