## **Rational Number Worksheet - 1**

1. If $\frac{a}{b}$ is a rational number, then b is always a whole number. Mark true/ False					
a)	True	b)	False		
2. If c≠0, then the multiplicative inverse of $\frac{c}{d}$ is $\frac{d}{c}$ . Mark true/ false.					
a)	True	b)	False		
3. If $\frac{m}{n}$ is a rational number, then m is not equal to zero. Mark True / False.					
a)	True	b)	False		
4. If $\frac{t}{u}$ is a rational number, and u cannot be equal to 0. Mark True / False					
a)	True	b)	False		
5. The population of USA in 2005-06 is a rational number. Mark True / False.					
a)	True	b)	False		
6. If A and B are rational number then $A - B = B - A$ . Mark True/False.					
a)	True	b)	False		
7. 0 is a rational number. Mark True/ False.					
a)	True	b)	False		
8. Closure property of rational number closed under Division. Mark True/ False.					
a)	True	b)	False		
9. Infinite rational numbers are present in between two rational numbers. Mark True/False					
a)	True	b)	False		
10. Multiplicative identity of rational number is 0. Mark True/ False.					
a)	True	b)	False		
11. Multiplicative inverse of a negative rational number is					
a)	0	b)	A positive rational number		
c)	1	d)	A negative rational number		
12. If 'r' is the reciprocal of rational number 's', then the reciprocal of 'r' will be					
a)	s/r	b)	S		
c)	r/s	d)	r		
13. $(312 \times 521)^{-1} = (312)^{-1} \times \_$					
a)	$\frac{1}{312}$	b)	521		

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c)	<u>1</u> 162,552	d)	<u>1</u> 521			
14. Simplify $\frac{31}{3} + \frac{21}{12} \times \frac{25}{11}$ .						
a)	<u>45</u> 115	b)	152			
c)	$11\frac{15}{12}$	d)	$14\frac{41}{132}$			
15. By what rational number should $\frac{-11}{12}$ be multiplied to get the product $\frac{-11}{20}$ .						
a)	$\frac{3}{5}$	b)	$\frac{2}{10}$			
c)	$\frac{3}{12}$	d)	<u>5</u> 4			
16. Divide the sum of $\frac{-1}{7}$ and $2\frac{3}{5}$ by their difference.						
a)	$\frac{-3}{45}$	b)	$\frac{-8}{83}$			
c)	$\frac{-5}{35}$	d)	$\frac{-6}{73}$			
17. If $\frac{2}{3}$ of a number exceeds its $\frac{1}{5}$ by 35, find the number.						
a)	105	b)	75			
c)	80	d)	100			
18. Sita walks $1\frac{3}{5}$ km from a point B towards East and then from there $2\frac{2}{5}$ km towards west. How far will she be now from B?						
a)	-	b)	$\frac{4}{5}$ km			
c)	15/5 km	d)	$\frac{12}{25}$ km			
19. Area of a rectangular park is $8\frac{9}{20}$ sq. m. If the length of the park is $3\frac{1}{4}$ m, find its breath.						
a)	$3\frac{5}{7}$ m	b)	$2\frac{3}{5}$ m			
c)	$\frac{5}{9}$ m	d)	$\frac{9}{20}$ m			
20. Find the area of a square park whose one side is $3\frac{4}{5}$ m long.						
a)	$14\frac{11}{25}$	b)	$21\frac{3}{25}$			
c)	<u>221</u> 25	d)	<u>521</u> 25			

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