WORKSHEET

- **01.** Reciprocal of Zero is -----
 - (a) 0
 - (b) 1
 - (c) -1
 - (d) None of the above
- **02.** The multiplicative inverse of 10^{-100} is
 - (a) 10¹⁰⁰
 - (b) 10⁻¹⁰⁰
 - (c) 10
 - (d) 100
- **03.** Zero (0) is
 - (a) the identity for addition of rational numbers
 - (b) the identity for subtraction of rational numbers
 - (c) the identity for multiplication of rational numbers
 - (d) the identity for division of rational numbers
- **04.** One (1) is

05.

06.

	(a) the identity for a	ddition of rational nur	mbers your Ton	norrow 📕		
	(b) the identity for s	ubtraction of rational	numbers			
	(c) the identity for m	nultiplication of ration	al numbers			
	(d) the identity for division of rational numbers					
	Find the least number by <u>wh</u> ich 1323 must be multiplied so that the product is a perfect cube.					
	(a) 5 2.7 is what percent (a) 10%	(b) 6 t of 18?	(c) 7	(d) 8		
	(b) 15%					

- (c) 1.5%
- (d) 20%

	[AUTUMN HOLID/	AY HOMEWORK]	SUBJECT NAME -MATH CLASS - VIII		
07.	1. If A & B are two sets such that n(A)= 15, n(B)= 21, & n(A∪B) = 36 then n(A∩B) equal to				
	(a) 2				
	(b) 0				
	(c) 4				
	(d) 15				
08.	If 5A x A = 399, then the value of A is				
	(a) 3				
	(b) 7				
	(c) 6		2		
	(d) 9				
09.	If 30 men can do a work in 24 days. How many men will do the same work in 12 days?				
	(a) 30		whole number		
	(c) 60	(d) a 1	rational number.		
10.	a + b = b + a is called				
	(a) commutative law of addit	tion (b) as	sociative law of addition		
	(c) distributive law of addition (d) none of these.				
11.	Insert three rational number	rs between 2/3 and 3/	/4.		
12.	Simplify: $(12)^{-2} \times 4^{-3}$.				
13.	$5\frac{1}{2}$ m long rope is cut into 12 2	s the length of each piece?			
14.	Write the following rational numbers in the descending order.				
	8/7, -9/8, -3/2, 0, 2/5				

- **16.** The perimeter of a triangle is $8y^2 9y + 4$ and its two sides are $3y^2 5y$ and $4y^2 + 12$. Find its third side.
- **17.** A can do a piece of work in 20 days and B in 15 days. They worked together on it for 6 days and then A left. How long will B take to finish the remaining work?
- (i) At what rate per cent per annum will Rs. 630 produce an interest of Rs. 126 in 4 years ?(ii) At what rate per cent per year will a sum double itself in 6 years ?
- **19.** Calculate the difference between the compound interest and the simple interest on ₹ 7,500 in two years and at 8% per annum.
- **20.** If the price of sugar is increased by 25% today; by what percent should it be decreased tomorrow to bring the price back to the original?
- **21.** In a Group of 500 people , 250 can speak French & 300 can speak German. How many can speak both French & German. Represent it in Venn diagram
- **22.** John sold an article to Peter at 20% profit and Peter sold it to Mohan at 5% loss. If Mohan paid Rs.912 for the article; find how much did John pay for it ?
- 23. Rajesh sold his scooter to Rahim at 8% loss and Rahim, in turn, sold the same scooter to Prem at 5% gain. If Prem paid Rs. 14,490 for the scooter ; find :
 (i) the S.P. and the C.P. of the scooter for Rahim
 (ii) the S.P. and the C.P. of the scooter for Rajesh
- 24. Insert six rational numbers between 5/6 and 8/9
- 25. If √784 = 28, find the value of: anging your Tomorrow (i) √7.84 + √78400
 (ii) √0.0784 + √0.000784
- 26. Find, which of the following sets are singleton sets :
 (i) The set of points of intersection of two non-parallel st. lines in the same plane
 (ii) A = {x : 7x 3 = 11}
 (iii) B = {y : 2y + 1 < 3 and y ∈ W}
 Note : A set, which has only one element in it, is called a SINGLETON or unit set.
- **27.** If John sells his bicycle for Rs. 637, he will suffer a loss of 9%. For how much should it be sold, if he desires a profit of 5%?
- **28.** If 3 men or 6 boys can finish a work in 20 days, how long will 4 men and 12 boys take to finish the same work ?

[AUTUMN HOLIDAY HOMEWORK]

SUBJECT NAME -MATH | CLASS - VIII

29. A family of 5 persons can be maintained for 20 days with Rs.2,480. Find, for how long Rs.6944 will maintain a family of 8 persons.

30. Find the proper subsets of $\{x : x^2 - 9x - 10 = 0\}$

