



<i>SenIOr tutOrs</i> 834, vikas kunj, vikas puri, ph: 9873444080, 9911194794				
X Maths	Real Num		Rohin Gupta	
true?				
(a) L.C.M (p,q, r) = $\frac{p \times q \times r}{H.C.F(p, q, r)}$	r)			
(b) L.C.M. (p,q,r ) × H.C.F (p,	$q, r) = \frac{p \times q \times r}{H.C.F(p, q)HCF(q, r)}$	r)HCF(r,p)		
(c) L.C.M (p,q,r) = $\frac{p \times q \times q}{HCF(p,q) \times q}$	$\frac{\mathbf{r} \times \mathrm{HCF}(\mathbf{p}, \mathbf{q}, \mathbf{r})}{\mathrm{HCF}(\mathbf{q}, \mathbf{r}) \times \mathrm{HCF}(\mathbf{r}, \mathbf{p})}$			
(d) L.C.M (p,q,r) = $\frac{1}{r \times HCF(p,q)}$	$p \times q \times r$ )+ q×HCF(p,r)+ p×HCF	(q, t)		
(Q.17) The L.C.M. of two	numbers is 45 times	their H.C.F. If one of	the numbers is	
125 and the sum of H.C.F.	and L.C.M. is 1150,	the other number is.		
(a) 215	(b) 220	(c) 225	(d) 235	
(Q.18) Suppose you have	108 green marbles a	and 144 red marbles.	You decide to	
separate them into packag	jes of equal number o	f marbles. Find the r	naximum	
possible number of marble	es in each package.			
(a) 4	(b) 36	(2)	(d) 12	
(Q.19) Find the greatest number that will divide 55, 127 and 175, so as to leave				
the same remainder in eac	ch/case.			
(a) 11	(b) 16	(c) 18	(d) 24	
(Q.20) A man was engaged for a certain number of days for Rs. 404.30 but				
because of being absent for some days he was paid only Rs. 279.90. His daily wages				
cannot exceed by:				
(a) Rs. 29.10 p	(b) Rs. 31.30 p	(c) Rs. 31.10 p	(d) Rs. 31.41 p	
(Q.21) The least number of five digits which is exactly divisible by 12, 15 and 18 is:				
(a) 10010	(b) 10051	(c) 10020	(d) 10080	

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(Q.22) Find the greatest p		,		
distance of 70 km and 245	km in exact number o	of days?		
(a) 55	(b) 60	(c) 35	(d) 45	
(Q.23) Three bells chime a	at an interval of 18, 24	l and 32 minutes res	spectively. At a	
certain time they begin to	chime together. What	length of time will e	lapse before	
they chime together again	? 9873444080			
(a) 2 hours 24 minutes	(b) 4 hours 48 minut	es (c) 1 hour 3	6 minutes	(d) 5 hours
(Q.24) 2525 is				
(a) a composite number	(b) a natural number	(c) an irrational r	umber (d) bot	h (1) & (2)
(Q.25) The length, breadt	h and height of a room	n are 8 m 25cm, 6m	75cm and 7m	
50cm respectively. Determ	ine the longest tape, v	which can measure t	he three	
dimensions of the room ex	actly.		~	
(a) 75 cm	(b) 150 cm	(c) 90 cm		(d) 180 cm
(Q.26) H.C.F of 3638 and	3587 is			
(a) 13	(b) 17	(c) 19		(d) 23
(Q.27) Find the greatest number, which divides 1442 and 1803 leaving remainder 2				
and 3 respectively. 987	3444080			
(a) 90	(b) 180	(c) 360		(d) 720
(Q.28) The length, breadth and height of a room are 8m25cm, 6m75cm and				
4m50cmrespectively. Determine the longest rod which can measure the three				
dimensions of the room ex	actly 9873444080			
(a) 6 <del>5c</del> m	(b) 77cm	(c) 75cm		(d) 80cm
(Q.29) 3/9 - 3 (T/F)				

(Q.30) Why is 7x11x13 + 7 a composite integer.

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(Q.31) Without actual division, state	whether the $2^{\circ} \times 5^{\circ}$	$\overline{7}$ is terminating or n	ion	
terminating rational numbers.				
(Q.32) $\pm^1$ divides every non zero inte	eger .(T/F)			
(Q.33) If a and b are non- zero integ	er then a/b = b/a	a ⇒a ≠b (T/F)		
(Q.34) Express 140 in its prime facto	r. 987344408	0		
(Q.35) Determine .875 is terminating	or non-terminatin	ig.		
(Q.36) H.C.F of two integers 26, 91 is 13 what will be its L.C.M.?				
(Q.37) If the HCF of 210 and 55 is expressible in the form $210 \times 5 + 55y$ , find y				
(a) 19 (b) 15		(c) -19	(d) -21	
(Q.38) Find the HCF of 96 & 404 by prime factorization method. Hence, find the LCM				
(a) 1000 (b) 9600		(c) 9640	(d) 9696	
(Q.39) Find the largest number that $v$	vill divide 2053 an	d 967 and leaves a		
remainder of 5 and 7 respectively. 9873444080				
(a) 128 (b) 54		(c) 256	(d) 64	
(Q.40) Explain why 7 x 11 x 13 + 13 and 7 x 6 x 5 x 4 x 3 x 1 + 5 are composite				
numbers 9873444080				
(a) Product of prime factor (b) Compo	site No	(c) Both of these	(d) None of these	
(Q.41) Find out HCF of 867 and 255 by using Euclid Division Algorithm				
(a) 51 (b) 45		(c) 50	(d) 55	
(Q.42) If the sum of two numbers is 95 and the H.C.F. and L.C.M. of these numbers				
are 5 and 240 respectively, then the sum of the reciprocals of the numbers is equal				
to:				

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X Maths	Real Number	By: Rohin (	-	
(a) $\frac{1}{8}$	(b) $\frac{1}{16}$	(c) $\frac{1}{4}$	(d) none	
(Q.43) Find out HCF of 38	3,220 and 196 by using Euclid	d Division Algorithm		
(a) 192	(b) 190	(c) 196	(d) 198	
(Q.44) $\sqrt{2}$ is an irratio	nal or rational number used b	y contradiction metho	d.	
(a) Rational	(b) Irrational	(c) Both of these	(d) None of these	
(Q.45) Which of the follow	wing is non terminating repea	ating decimals?		
(a) 13 3125	(b) $\frac{17}{8}$	(c) $\frac{64}{455}$	(d) $\frac{129}{2^2 5^7 7^5}$	
(Q.46) Find the greatest	number of 6 digits exactly div	visible by 24, 15 and 3	6	
(a) 999999	(b) 999789	(c) 999000	(d) 999720	
(Q.47) Find the HCF and	LCM of 90 and 144 by the pri	me factorization metho	bd	
(a) 15, 20	(b) 15, 720	(c) 18, 720	(d) None of these	
(Q.48) Find the H.C.F and	L.C.M. of 25152 and 12156	by using the fundamen	ntal	
theorem of Arithmetic	9873444080			
(a) 24457576	(b) 25478976	(c) 25478679	(d) 24456567	
(Q.49) Find the largest number which divides 245 and 1029 leaving remainder 5 in				
each case. 987	73444080			
(a) 48	(b) 64	(c) 20	(d) 16	
(Q.50) 256 is a				
(a) Terminating decimal	(b) Non-terminating decimal	(c) Cannot be determin	ed (d) None of these	
(Q.51) Find the HCF of 65 and 117 and express it in the form 65m + 117n				
(a) m = -2 , n = -1	(b) m = 2 , n = -1	(c) m = 3 , n = -1	(d) m = 2 , n = 1	
(Q.52) Given H.C.F (306, 657) = 9, find L.C.M. (306, 637)				

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(a) 22222	X Maths	(b) 2232	Real Number	<b>By: Rohin</b> (c) 22302	(d) 22338
(Q.53) In a	seminar, the n	umber of	f participants in Hin	di, English and Mathe	matics
are 60, 84 a	nd 108 respect	ively. Fin	nd the maximum nu	mber of rooms require	ed if in
each room t	he same numb	er of part	ticipants are to be s	seated and all of them	being
in the same	subject.		9911194794		
(a) 17		(b) 21		(c) 27	(d) 19
(Q.54) Ther	re is a circular ı	oath arou	und a sports field. P	riya takes 18 minutes	to drive
one round o	f the field, whil	e Ravish	takes 12 minutes f	or the same. Suppose	they
both start at	t the same poir	nt and at	the same time, and	l go in the same direct	tion.
After how m	any minutes w	ill they m	neet again at the sta	arting point	
(a) 30		(b) 36		(c) 40	(d) 26
(Q.55) Two tankers contain 850 litres and 680 litres of petrol respectively. Find the					
maximum ca	apacity of conta	ainer whic	ch can measure the	petrol of either tanke	er in
exact numbe	er of times.		$\langle \langle \rangle$		
(a) 135		(b) 160		(c) 170	(d) 210
(Q.56) Find the HCF of 96 and 404 by prime factorization method. Hence, find					
thereLCM	99111	194794			
(a) 9595		(b) 9696	5	(c) 9292	(d) 9393
(Q.57) In a school there are two sections – section A and section B of classX. There					
are 32 students in section A and 36 students in section B. Determine the minimum					
number of books required for their class library so that they can be distributed					
equally among students of section A or section B					
(a) 300		(b) 296		(c) 288	(d) 278
(Q.58) Sho	w that $3\sqrt{2}$ is in	rational.			(3 Marks)

