Number systems and LCM and HCF

1) What will be the smallest number divisible by 6, 8, 18, 24 and 36?

1) 36 2)72 3)48 4) 144 5) None of these						
2)Which is the least number divisible by 10, 18 and 25?						
1) 350 2)450 3)320 4) 500 5) None of these						
3)Find the greatest number of 4 digits, which is exactly divisible by 8, 12, 18, 15 and 20.						
1) 9840 2) 9720 3) 9280 4) 9630 5) None of these						
4) Which is the greatest number of 4 digits, which is divisible by each one of the numbers 12, 18, 21 and 28?						
1) 9848 2) 9864 3) 9828 4) 9636 5) None of these						
5)Find the least number which when increased by 6 is exactly divided by 12, 21 &	35					
1) 441 2) 144 3) 414 4) none						
6)Find the smallest number which when divided by 6, 9, 12 & 15 leaves 5 as remain	inder in each case					
1) 185 2) 158 3) 365 4) none						
7) What is the smallest number which when divided by 16, 20, and 25 leaves remainder 7, 11, and 16 respectively?						
1) 391 2) 404 3) 164 4) 146 5) None of these						
8) Which is the smallest number which when divided by 20, 25, 35 and 40 leaves the remainder 14, 19, 29 and 34 respectively?						
1) 1394 2) 1404 3) 1664 4) 1406 5) None of these						
9)Find the smallest number which when divided by 32, 40, 56 leaves 12, 20, 36 as remainders respectively						
a) 1140 b) 1120 c) 1410 d) none						
10)What is the largest number that can exactly divide 52, 65 and 143?						
1) 11 2) 13 3) 14 4) 12 5) None of these						
11)What is the greatest number that will exactly divide 75, 90 and 165?						

1) 11 2) 15 3) 14 4) 12 5) None of these

12) What is HCF of 720 and 324?

1) 32 2)50 3) 9 4) 36 5) None of these

13) What will be the greatest number that divides 68, 59 and 43 leaving the remainders 8,9 and 3 respectively?

1) 8 2) 10 3) 24 4) 35 5) None of these

14) Find the greatest number that will divide 65, 81 and 145 leaving the 1 remainder in each case.

1) 32 2)50 3) 9 4) 16 5) None of these

15) The LCM and HCF of two positive numbers are 300 and 30 respectively. If one of the numbers is divided by 4, the quotient is 15, then what is the other number?

1) 360 2) 300 3) 150 4) 75 5) None of these

16) The HCF of two numbers is 11 and their LCM is 7700. If one of these numbers is 275, then what is the other number?

1) 279 2) 283 3) 308 4) 318 5) 320

17) The H.C.F and L.C.M of two numbers are 44 and 264 respectively. If the first number is divided by 2, the quotient is 44. What is the other number?

1) 123 2) 33 3) 66 4) 264 5) None of thes

18) The H.C.F of two numbers is 12 and their L.C.M is 360. If one of the numbers is 36. Find the other number?

a) 80

b) 90

c) 100

d) none 120

19) What is the least number of square tiles of uniform size required to pave the floor of a rectangular hall of length 20 m and breadth 16m?

1) 15 2) 20 3) 35 4) 8 5) None of these

20) The length and breadth of a room are 13 m and 7.5 m respectively; the floor of the room is to be paved with square tiles of uniform size. What will be the length of the largest possible size of the tile?

1) 1.0m 2) 0.5m 3) 1.5m 4) 5.0m 5) 6.0m

21) The L.C.M. of two numbers is 15 times its H.C.F. If the product of those number's is 14415. Find H.C.F

last divisor is 1	7. Find those numb	ers.			
a) 425, 952	b) 4	52, 952	c) 425, 925	d) none	
,	ring at intervals of d after what interva (2) 10 am	al of time do they		•	ring together
	ll together the next b) 1.12	time.	respectively. I	f they all ring together	at 1 PM when
25)A man wrothe number?	te all the natural 1	numbers starting	from 1 in a se	eries. What will be th	e 50 th digit of
(a) 1	(b) 2 (c)	3 (d) 4			
26)The value of	of 101 + 102 + 103	+ + 200 is			
(a) 150	50 (b)	20200	(c) 10909		
(d) 165	600 (e)	None of these			
,			-	eight of 35 metre. In t wn by 2 metre. Furth	

repeated the same process till he has reached on the top of the pole. How many times it has to go

(4) none these

c) 31

22)In finding H.C.F. of two numbers by division method, the quotients are 2, 4, 6 respectively and the

d) none

a) 30

b) 13

upward to reach the apex of the pole?

(3) 12

(2) 11

(1) 10



28) What	least nui	nber should be	added to	16380 to	make it a perf	ect square?		
(1) 1	,	(2) 2	(3) 3	(4) none	these(4)			
29). How 1 (1) 33	many nu (2) 34				divisible by 13 e these(38)	?	e e	
Then be a	nd given	3 chocolates to	o C and tl	hen half o	to B one less the of the chocolate with him. The	s which he	had then give	en to D
(1) 8	(2) 12	(3) 1	4	(4)	none these			
many		to type the seri has to press th	e keys of	numeral	lidates in a list, s only? (4) none these		Minimum ho	W
num	ber p	repared b	y reve	rsing 1	ab & cd, the digits of the value	of ab, if	ab X cd	<u>=</u>
(a) 43	(b) 45	(c)	47 d) 46	(e) 4	9	
			,					

33) What is the number of zeros at the end of 126!?

(a) 26

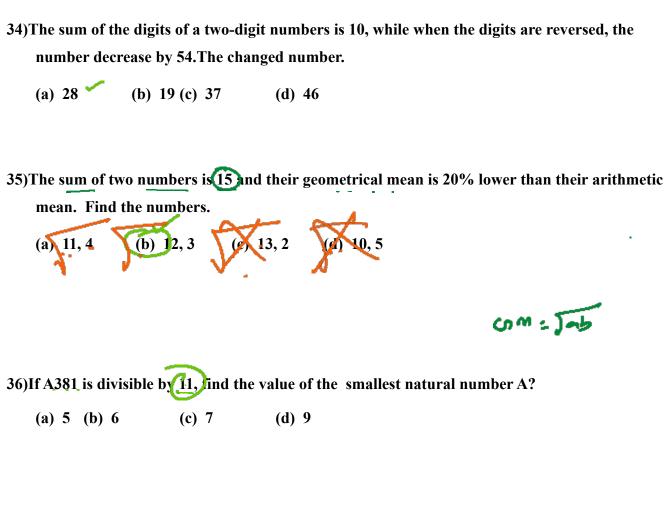
(b) 12

(c) 13

(d) 31

5 + 420 6 4 420 7 4 420

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38) Find the number of divisors of 1420.

- (a) 14
- (b) 15
- (c) 13 12

39) Which of the following is not a perfect square?

- (a) 100858
- (b) 325137
- (c) 94572
- (d) All the above

40) Which of the following can never be in the ending of a perfect square?

- (a) 6
- (b) 00
- (c) 000
- (d) 5

41)120 apples were present with total of 7 persons. Each person had atleast 13 apples. Which of the following cannot be the total number of apples with any 2 persons.

- a) 47
- b) 44 c)56

d) 3:

42) 1000! ends with _____ number of consecutive zeros

- a) 248
- b) 249 c) 312
- d) 124

- 43) The number obtained by interchanging the two digits of a two-digit number is more than the original number by 27. If the sum of the two digits is 13, what is the original number?
 - 1) 63 2) 74 3) 85 4) 58 5) None of these
- 44) When the digits of a two-digit number are interchanged, the number obtained is less than the original number by 36. What is the original number if the difference of the two digits is 4?
 - 1) 84 2)51 3)73 4) Cannot be determined 5) None of these
- 45) The product of two successive numbers is 4692. Which is the smaller of the two numbers?
- 1)69 2)62 3)68 4)67 5) None of these
- 46) The product of two successive numbers is 9506. Which is the smaller of the two numbers?
 - 1)96 2)97 3)98 4)99 5) None of these
- 47) The product of two consecutive even numbers is 3248. Which is the larger number?
 - 1)58 2)62 3)56 4)60 5) None of these
- 48) The sum of five consecutive even numbers is 200. What is the sum of the next set of the consecutive even numbers?
- 1)215 2)235 3) 240 4) 250 5) None of these
- 49) The sum of five consecutive odd numbers is 575. What is the sum of the next set of the consecutive odd numbers?
 - 1)615 2)635 3) 595 4) Cannot be determined 5) None of these
- 50)On a school's annual day sweets are to be equally distributed amongst 112 children. But on that particular day, 32 children were absent. Thus the remaining children got 6extra sweets. How many sweets was each child originally supposed to get?
- 1)24 2)18 3)15 4) Cannot be determined 5) None of these
- 51)There are two numbers such that the sum of twice the first number and thrice the second number is 300 and the sum of thrice the first number and twice the second number is 265. What is the larger number?
 - 1) 24 2)39 3)85 4)74 5) None of these
- 52) Find the unit digit of 122^{122} X 133^{133} .

(a)	2	(b) 4		(c) 6	(d)	8
53) Find the unit digit of the product of all the elements of the set which consists of all the prime numbers greater than 2 but less than 222.						
(1) 3 ((2) 4		(3) 5			(4) none these
	nit digit of $(2!)^2 + (3!)^2$	$(4!)^3 + (4!)^3$	$^4 + (5!)^5$		6	1) none these
,	· /					,
55)Find th	_	it of 222 ⁸		222.		1) mana thasa
1) 0 2)	1		3) 2			4) none these
56). Find t	he remain	nder of 15	X 17 X	19 wł	nen d	ivided by 7.
(a)	5	(b) 3		(c) 1	d)0	
()				` ′		es a remainder 30. What is the remainder if, the same
	er be divi			oy Jo	icave	is a remainder 50. What is the remainder if, the same
Hullio	er de arvi	ded by 19	· <u> </u>			
(1) 8	(2) 9		(3) 10	(4) noi	ne these (11)
58)Find th 15.	e smalles	t number	which g	ives a	rema	uinder 5, when divided by any of the numbers 8,12 and
1) 12	0 2)	240	3) 125	4) 6	55 5)	101
59) Numbers from 1 to 100 are written side by side. What is the 74 th digit? a) 3 b) 4 c)1 d) 5						