### INNATE TALENT - COGNIZANT

# NUMBER SYSTEM - COMPLETE

1.	The number 2594* is completely divisible by 6. The smallest value of* of	an be:
	a) 2 b) 6 c) 4	d) 0
2.	If 764xy is divisible by 90, then what is the value of $x + y$ ?	
27	a) 1 b) 3 c) 5	d) 6
3.	2810 to obtain a number exactly divisible by	0.5
4	a) 1 b) 3 TRANS C) 5 FM NS FU	d) 7
4.	If 78Q928R is divisible by 6, then what values can Q and R take? a) Q=2&R=3 b) Q=1&R=4 c) Q=1&R=2	d) Q=3&R=3
5	a) Q=2&R=3 b) Q=1&R=4 c) Q=1&R=2 The number 456*85 is completely divisible by 3. Smallest whole digit no	15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
٦.	a) 0 b) 1 c) 2	d) 3
6.		4,3
1000	a) 1,004 b) 1,008 c) 1,012	d) 1,016
7.	Which of the given numbers is divisible by 11?	500 F 500 F 500 500 500 500 500 500 500
	a) 1042 b) 1045 c) 1047	d) 1048
8.	What is the least number that should be subtracted from 3592 to obtain	
	a) 0 b) 1 TRANS c) 2 RMING FL	5-50 ·
9.	Sum of the digits of a 3-digit number subtracted from the number. The	AND THE RESERVE OF THE PERSON
	a) 6 b) 9 c) Both 6 and 5	d) All 3, 6 and 9
10.	. If a and b are natural numbers and (a - b) is divisible by 3, then a³- b³ is	
44	a) 3 but not by 9 b) 9 c) 6	d) 27
11.	. What is the least number that should be subtracted from 3592 to obtai	
12	a) 0 b) 1 c) 2 . If a number is divisible by 63, then it is also divisible by:	d) 3
12.	a) 7 b) 11 c) 13	d) 17
13	. What is the least perfect square, which is divisible by 24, 30 and 607?	4)17
10.	a) 14400 b) 3600 c) 32400	d) 1600
14.	. Which number should be multiplied by 5324 to make it a perfect square	
	a) 11 b) 7 TRAC) 9 S F O R M II	d) 3 FUTURE
15.	. What is the number that should be subtracted from 682 to make it a pe	rfect square?
	a) 2 b) 4 c) 6	d) 8
16.	. What should be multiplied to 2880 to make it a perfect square?	-
	a) 2 b) 3 c) 5	d) 7
17.	. What is the value of X, When $X=i^1+i^2+i^3+i^4+i^5$ ?	n ·
10	a) 0 b) 1 c) i . What is unit digit of the sum? $1 + 2^2 + 3^3 + 4^4 + 5^5 + 6^6$ ?	d) -i
18.	a) 4 b) 9 c) 0	d) 7
19	. What is the unit digit in 27 <sup>20</sup> ?	α, ,
15.	a) 1 b) 7 c) 9	d) 3
20.	. What is the remainder if $8^{25}$ is divided by 7?	-, -
	a) 8 b) 1 c) 0	d) 25
21.	. Find the remainder when 2 <sup>21</sup> is divided by 6.	AL ENT
	a) 1 b) 0 c) 4	d) 2
22.	. x and y are 2 numbers which when divided by 6 leave a remainder of	4 and 5 respectively. What will be
	the remainder when $y + x$ is divided by 62?	
Jagani de la compansión de	a) 6 b) 9 c) 1	d) None of these
23.	. What is the remainder when we divide 125! by 10 <sup>31</sup> ?	
	a) 0 b) 1 c) 4	d) 5

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## **NUMBER SYSTEM - COMPLETE**

24. Find the least numbe a) 398	r which when divided by b) 453	5, 7 and 13 leaves the sa c) 458	me remainder 3 in each case d) 197		
In the total of column	200 C 100 200 C 20	35 # 0000000000	same remainder in each case.		
a) 2	b) 4	c) 7	d) 9		
26. Find the smallest two		es 587 and 730 leaving re			
a) 15	b) 19	c) 13	d) None of these		
27. Find the largest two-	with the property of the contract of the contr				
a) 91	b) 93	c) 96	d) 98		
28. what is the highest po					
a) 16	b) 19	c) 20 F and ICM are 1 and 91	d) 21 respectively, then the square of one		
of the numbers is:	inbers is 20 and then fici	and Leivi are 1 and 51	respectively, then the square of one		
a) 16	b) 25	c) 36	d) 49		
		35	tors of the product of two numbers		
are:		TALE	NT		
a) 3 and 7	b) 3 and 5	c) 2 and 5	d) 2 and 3		
31. If LCM and HCF of t	31. If LCM and HCF of two numbers are equal and product of two numbers is 3136, find the HCF of the				
numbers.					
a) 44	b) 46	c) 54	d) 56		
			two numbers can be expressed as:		
a) 2 <sup>4</sup> x3x5	b) 2x3 <sup>2</sup> x5 <sup>4</sup>	c) 2 <sup>4</sup> x3 <sup>2</sup> x5	d) 2 <sup>4</sup> x3x5 <sup>2</sup>		
			an be the fourth number?		
a) 16	b) 18	c) 20	d) 24		
	and LCM of two number	rs are 1/12 & 1/312 resp	ectively. If one of the numbers is 24,		
find the ot <mark>he</mark> r one. a) 156	b) 468	c) 117	d) 234		
a) 1	5. If the product of two co-prime numbers is 783, then find the LCM of these numbers.  a) 1  b) 783  c) LCM will be = to HCF d) LCM cannot be calculated				
	36. If LCM and HCF of two numbers are 294 and 49 respectively, product of two numbers can be expressed as:				
	b) 2 <sup>2</sup> X 3 <sup>2</sup> X 7 <sup>2</sup>		and the control of the first and the fill the control of the contr		
Balletin and the control of the cont	7. If LCM and HCF of two numbers are equal and product of two numbers is 3136, find the HCF of the				
numbers.	•	2.50			
a) 44	b) 46	c) 54	d) 56		
38. Four bells begin to to	oll together and then eac	h one at intervals of 6,	7, 8 and 9 seconds respectively. The		
number of times they	y will toll together in the i	next 2 hours is:			
a) 14	b) 15	c) 13	d) 11		
_	9. A light blink after every 3 seconds, another light blinks after every 5 seconds and the third one blinks after				
	w many times do they bl				
a) 7 times	b) 4 times	c) 240 times	d) 8 times		
			respectively. Find the numbers.		
a) 21, 35	b) 35, 49	c) 49, 63	d) 63, 77		
	. Difference of LCM and HCF of two numbers is 8. Sum of their LCM and HCF is 24. if one number is 8. find				
the other. a) 24	h) 16	c) 12	d) 5		
Tanana A Di Anasana	b) 16 inct natural numbers HO				
	. M and N are two distinct natural numbers. HCF and LCM of M and N are K and L respectively. If A is also a natural number, then which of the given relations is NOT possible?				
a) K*L=A	b) K*A=L	c) L*A=K	d) None of these		
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#### **NUMBER SYSTEM - COMPLETE**

43. One third of a two-digit number exceeds its one fourth by 7. What is the sum of digits of the number?

a) 72

b) 84

c) 15

d) 12

44. A number is to be multiplied by the fraction 4/5. But Samir, by mistake multiplied it by 5/4 and obtained the number 81 more than the correct one. What was the original number?

a) 200

b) 120

c) 180

d) 240

45. In a class of 80 students, 4/5 of them own cars. If 15/16 of them own alto then how many own Alto?

a) 64

b) 20

c) 60

d) Data Inconsistent

46. In a pair of fractions, fraction A is six times the fraction B and the product of the two fractions is 6/25. What is the value of fraction A?

a) 3/5

L\ F //

c) 1/5

d) 6/5

47. Divide the sum of 3/5 and 8/11 by their difference.

a) -7/73

b) 73/-7

c) 11/15

d) None of these

48. A number is to be multiplied by the fraction 4/5. But Samir, by mistake multiplied it by 5/4 and obtained the number 81 more than the correct one. What was the original number?

a) 200

b) 120

c) 180

d) 240

49. What is the value of (10101)<sub>2</sub> in decimal number system?

a) 18

b) 20

c) 21

d) 42

50. Write  $(625)_{10}$  as a number, in the number system with base 8.











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