



INDIAN SCHOOL DARSAIT

DEPARTMENT OF MATHEMATICS



Subject : Mathematics Topic : Playing with Numbers Date :30/05/2019

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Name of the Student : _____ Class & Division: VI Roll Number : __

S.No.	Section A(Basic Skills)	Marks
1	Write an even prime number.	1
2	Which of the following are co-prime numbers: (i)4,8 (ii) 5, 9 (iii) 12,25 (iv) 16, 18	1
3	How many prime numbers are there up to 100	1
4.	Write a pair of twin prime numbers between 10 and 20	1
	Section B	
5	Write all the common factors of the following numbers (i)56,64 (ii)12, 40	2
6	HCF of two numbers is 12, their product is 4320. Find their LCM	2
7	Which of the following are divisible by 3 (i)528 (ii) 116 (iii) 4173 (iv)319	2
8	Identify the numbers divisible by 8 (i)7328 (ii)676152 (iii)965214 (iv)615024	2
9	Find the smallest three digit number exactly divisible by 2,5,6	2
10	Find the least number which when divided by 20, 30, 40 leaves remainder 7 in each case	2
11	Write first 2 common multiples of the following: (i) 12, 15 (ii) 30, 45	3
12	Test the divisibility by 11: (i)38016 (ii)56248 (iii)746928	3

13	Test the divisibility by 6 as well as 9 (i)71412 (ii) 67572 (iii) 643214	3
14	Find the HCF of the following: (i)144, 180, 192 (ii) 396, 1080, 720	3
15	Draw Factor tree of the following numbers and fill in the blanks <div style="text-align: center;"> <pre> graph TD 32 --- 2 32 --- Q1[?] Q1 --- 8 Q1 --- Q2[?] 8 --- 2 8 --- Q3[?] Q3 --- Q4[?] Q3 --- 2 Q4 --- Q5[?] Q4 --- 2 </pre> </div>	2
16.	The sign board of a jewellery shop has three different colours red, green and yellow showing logo, name and picture of some jewellery respectively. Logo comes every 20 seconds, name comes every 24 seconds and picture comes every 12 seconds. All these lights were switched on together, after how much time will all these three light up together?	3
17.	A physical education teacher arranged three groups of 140, 91, 63 students for the march past. Find the number of students in each row, If equal number of students in each row.	3
Section C(Hot Questions)		
18	Find the greatest number that will divide 189, 223, 347and leave remainders 9, 3, 7 respectively.	2
19	When an army commander arranged to transport his battalion of soldiers,, he considered 30-seater, 40-seater and 50-seater buses. In all the three cases, he found that 10 seats were left vacant. What is the smallest number of soldiers in his battalion?	3