INDIAN SCHOOL AL WADI AL KABIR

Class VI, Mathematics (2024-25)

Worksheet DTQ – PLAYING WITH NUMBERS

	SHORT ANSWER TYPE QUESTIONS. (2 Marks each)
Q1.	Write first five multiples of the following numbers. a) 17 b) 29
Q2.	Find all the factors of the following numbers. a) 81 b) 96
Q3.	Use the divisibility rule of 8, check the following numbers are divisible by 8 or not. a) 6437536 b) 18620
Q4.	List out all the prime and composite numbers separately between 50 and 70.
Q5.	Test the the divisibility of the following numbers by 6: a) 56423 b)478326
Q6.	Find the first three common multiples of 6, 10 and 12 .
Q7.	Find all multiples of 40 that lie between 310 and 410.
Q8.	Write all the numbers less than 100, which are common multiples of 4 and 5.
	SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)
Q9.	Use the divisibility rule of 11, check the following numbers are divisible by 11 or not. a) 586949 b) 8050314052
Q10.	Find the difference between the smallest three-digit number and the smallest natural number. Also, carry out prime factorisation of the resulting number
Q11.	Check the following pairs of numbers are co-prime or not. State the reason. a) 325,326 b) 30, 69
Q12.	Use factor tree method, find the prime factors of the following numbers. a) 256 b) 529 c) 384
	LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)
Q13.	Find the prime factorisation of the following numbers by division method. a) 420 b)2145
Q.14	Using divisibility tests, determine which of the following numbers are divisible by 4 or not :1728, 729, 1024, 1331, 1000.
Q15.	Find the prime factorisation of these numbers without multiplying a) 56 × 25 b) 108 × 75 c) 1000 × 81

<div align="center">**ANSWERS**</div>

Q1.	Do as directed	**Q2.**	a) 3 × 3 × 3× 3 b) 2×2×2×2×2×3	**Q3.**	a)Yes b)No
Q4.	Do as directed	**Q5.**	Do as directed	**Q6.**	Do as directed
Q7.	320, 360,400	**Q8.**	20, 40, 60, 80	**Q9.**	a) Yes b) Yes
Q10.	100 − 1 = 99 = 3 × 3 × 11	**Q11.**	a) Yes b) No	**Q12.**	Do as directed
Q13.	Do as directed	**Q14.**	Do as directed	**Q15.**	Do as directed