



INDIAN SCHOOL AL WADI AL KABIR
Class VI, Mathematics
WORKSHEET (2025-26)
Number Play

Multiple Choice Questions

Q.1.	The smallest number whose digit sum is 8 is:							
	A	26	B	17	C	44	D	80
Q.2.	A _____ is defined as a number that is larger than all of its neighboring numbers in a grid.							
	A	Supercell	B	Cell number	C	Palindrome	D	None of these
Q.3.	The Kaprekar constant is:							
	A	6147	B	6714	C	6471	D	6174
Q.4.	A _____ is a number that reads the same forward and backward.							
	A	Supercell	B	Kaprekar constant	C	Palindrome number	D	None of these
Q.5.	Choose which is not a palindrome number.							
	A	16261	B	1661	C	10601	D	1606
Q.6.	The smallest 4-digit number only using the digits 4,0,3,2 is:							
	A	2034	B	2304	C	3042	D	2340
Q.7.	On a number line, 3256 would be exactly between							
	A	3250 & 3500	B	3350 & 3500	C	3450 & 3500	D	3000 & 3250
Q.8.	Choose the super cell in the table given below:							
			103		234		123	
			122		546		110	
	A	103	B	123	C	546	D	234
Q.9	In the Collatz sequence, what operation is applied if the number is odd?							
	A	Add by 1	B	Multiply by 2	C	Multiply by 3	D	Multiply by 3 & add 1
Q.10	Which among the following palindromic time?							
	A	12:32	B	10:11	C	12:12	D	12:21

	LONG ANSWER QUESTIONS:																
Q.11	Write any 4 palindrome numbers using the digits 2,3,4.																
Q.12	Write smallest and greatest 4 – digit number using the digits 1,0,9,6. Also find its sum and difference.																
Q.13	Write any two examples for palindromic date.																
Q.14	Check if the Collatz Conjecture holds for the number 26. (Show the proper steps)																
Q.15	Identify the numbers marked on the number lines below, and label the remaining positions. <div><div>a. </div><div>b. </div></div>																
Q16	Mark the appropriate positions of the given number on the number line. 2150, 1700, 3200, 4030 																
Q.17	If we group the 5-digit numbers between 25,000 and 65,000 such that all of their digits are odd: a. What is the largest number in the group? b. What is the smallest number in the group? c. Which number in the group is closest to 50,000?																
Q.18	Digit sum 18: a. Write any two numbers whose digit sum is 18. b. Which is the smallest number whose digit sum is 18?																
Q.19	Mark the super cells in the given table: <table><tr><td>1430</td><td>6000</td><td>5555</td><td>8990</td></tr><tr><td>4115</td><td>3567</td><td>4444</td><td>8888</td></tr><tr><td>3256</td><td>1234</td><td>6781</td><td>1221</td></tr><tr><td>5785</td><td>1844</td><td>5675</td><td>6034</td></tr></table>	1430	6000	5555	8990	4115	3567	4444	8888	3256	1234	6781	1221	5785	1844	5675	6034
1430	6000	5555	8990														
4115	3567	4444	8888														
3256	1234	6781	1221														
5785	1844	5675	6034														
Q.20	CASE STUDY: Two friends, Leon and Liya, are playing a game with 9 number cards. The numbers written on them range from 0 to 9. Leon chooses four cards with the digits 7, 1, 6, and 4. <div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div><div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div></div></div> Based on the above information, answer the following questions. a. Write the largest and smallest four-digit numbers using the digits 7, 1, 6, and 4. b. Find difference between the largest and smallest four-digit number using the digits 7,1,6 and 4. c. The difference between them is a magic number. Name the constant.																