SHRI DHARMASTHALA MANJUNATHESHWARA SCHOOL

GRADE 6 WORKSHEET 3

Chapter: Number Play

1. Colour or mark the supercells in the table below.

6228	670	9435	3780	3708	7308	8000	5583	52

2. Fill the table below with only 4-digit numbers such that the supercells are exactly the coloured cells.

5346		1258		9635	

Note: Coloured cells -2,4,9

- 3. Will the cell having the largest number in a table always be a supercell? Can the cell have the smallest number in a table be a supercell? Why or why not?
- 4.a. Write the numbers whose digits add up to 14.
- b. What is the smallest number whose digit sum is 14?
- c. What is the largest 5-digit whose digit sum is 14?
- d. How big a number can you form having the digit sum of 14? Can you make an even bigger number?
- 5.. Find out the digit sums of all the numbers from 40 to 70.
- 6. Write any 2 examples each for Palindromic Time and Palindromic date.
- 7. Check 'Kaprekar constant' for the number 8632.
- 8.Pratibha uses the digits '4', '7', '3' and '2', and makes the smallest and largest 4-digit numbers with them: 2347 and 7432. The difference between these two numbers is 7432 2347 = 5085. The sum of these two numbers is 9779. Choose 4 -digits to make:
- a. the difference between the largest and smallest numbers greater than 5085.
- b. the difference between the largest and smallest numbers less than 5085.
- c. the sum of the largest and smallest numbers greater than 9779.
- 9.1. Write an example for each of the below scenarios whenever possible.
- a) 5-digit + 5-digit to give a 5-digit sum more than 90,250
- b) 5-digit 5-digit to give a difference less than 56,503
- 10. Check if the Collatz Conjecture holds for the starting number 7.