

St. Andrews Scots School Adjacent Navniti Apartments, I.P. Extension, Patparganj, Delhi-110092 Session: -2026-27 Worksheet		
Class :VI	Subject: Mathematics	Topic: - Number Play

Multiple Choice Questions

- 1. If the numbers are 2, 7, 3, 9, 4, which numbers are supercells?**
 - (a) 2 and 3
 - (b) 7 and 9
 - (c) 3 and 4
 - (d) 2 and 4
- 2. A supercell is identified by comparing a number with its:**
 - (a) Neighbours
 - (b) Factors
 - (c) Multiples
 - (d) Digits
- 3. Which number has a digit sum of 10?**
 - (a) 235
 - (b) 124
 - (c) 413
 - (d) 502
- 4. What is the digit sum of 1005?**
 - (a) 5
 - (b) 6
 - (c) 7
 - (d) 8

5. A palindromic number reads the same:

- (a) From left to right only
- (b) From right to left only
- (c) From both directions
- (d) Only when written in words

6. Which is the smallest two-digit palindromic number?

- (a) 10
- (b) 11
- (c) 12
- (d) 22

7. What is the Kaprekar constant for 4-digit numbers?

- (a) 6174
- (b) 7641
- (c) 1467
- (d) 4176

8. Which of the following is the correct descending arrangement of 3524?

- (a) 2345
- (b) 5432
- (c) 5243
- (d) 4325

9. 328 rounded to the nearest hundred is:

- (a) 300
- (b) 350
- (c) 400
- (d) 500

- (a) To get an exact answer
- (b) To get a quick approximate answer
- (c) To make numbers larger
- (d) To avoid calculations completely

1.What is the largest 6- digit number whose digit sum is 18?

(a) 398×21
(b) 53×48
(c) 1012×846

3. How many rounds does the number 5683 take to reach the Kaprekar constant? [Show the Steps]

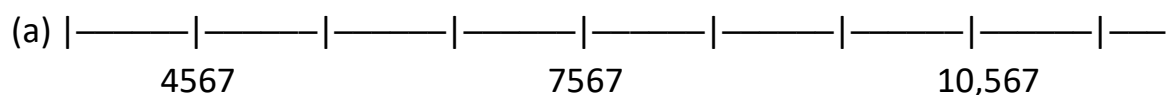
4. Fill in the cells in the table below with 5-digit numbers so that the coloured cells are supercells.

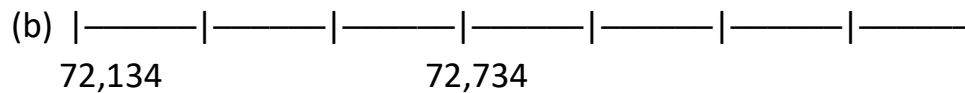
	34,789		56,780	
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5. A shopkeeper placed an order for Rs.29,789. The dealer gave him a discount of Rs 3,800. Use estimation to find the amount that the shopkeeper paid the dealer.

6. Which digit will make 18 9781 a palindromic number?

7. Find the missing numbers on the Number Lines given below: -





8. Complete the following (Collatz) sequence: -

(a) 21,64, ____, 16, 8,4, ____, ____

(b) 6,3,10, ____, ____, ____, 4,2,1

9. Case Study: The Number Pattern Game

Riya and her friends were playing a number game. They chose the number 24 and performed the following steps:

1. Add 6 to the number.
2. Multiply the result by 2.
3. Subtract 12.
4. Divide the answer by 2.

Questions

1. What is the final answer if the starting number is 35?
2. Why do we get the original number back?
3. Try the same steps with the number 50. What do you observe?

10. Assertion- Reason Based Questions:-

Each question consists of two statements namely Assertion(A) and Reason(R). To select the correct answer, use the following code:

- a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion(A).
- b) Both Assertion (A) and Reason(R) are true but Reason (R) is not the correct explanation of Assertion (A).
- c) Assertion(A) is true and Reason (R) is false.
- d) Assertion (A) is false and Reason(R) is true

1. **Assertion (A):** The product of an even number and any whole number is always even.

Reason (R): Every even number is divisible by 2.

2. **Assertion (A):** 125 is an even number.

Reason (R): Numbers ending in 5 are divisible by 5.