

**Class 4 Maths****Large Numbers****Successor and Predecessor Worksheet****Forming Numbers Worksheet**

Answer the following:

1. \_\_\_\_\_ is the successor of 49,999.
2. The predecessor of 1,00,040 is \_\_\_\_\_ .
3. Find the successor of the following:  
a) 9,10,999    b) 39,09,099    c) 42,020    d) 39,199    e) 45,699
4. Find the predecessor of the following:  
a) 80,010    b) 3,00,100    c) 5,00,000    d) 1,10,000    e) 7,77,777
5. Write the greatest and smallest number using the following digits only once
  - a. 6, 5, 0, 8
  - b. 7, 5, 2, 3
  - c. 3, 9, 1, 8
  - d. 3, 0, 7, 1, 3
  - e. 4, 2, 0, 1, 8

**6. Build the Greatest and Smallest Numbers**

*(Use each digit only once)*

**Questions**

1. Digits: 4, 7, 1, 9  
Write the greatest and smallest 4-digit numbers.
2. Digits: 5, 0, 8, 3  
Write the greatest and smallest 4-digit numbers.

3. **Digits: 6, 2, 9, 4**  
Write the greatest and smallest 4-digit numbers.
4. **Digits: 3, 0, 5, 9**  
Write the greatest and smallest 4-digit numbers.
5. **Digits: 8, 1, 7, 0, 5**  
Write the greatest and smallest 5-digit numbers.
6. **Digits: 2, 9, 4, 6, 1**  
Write the greatest and smallest 5-digit numbers.
7. **Digits: 7, 3, 0, 8, 2**  
Write the greatest and smallest 5-digit numbers.
8. **Digits: 5, 4, 9, 1, 6**  
Write the greatest and smallest 5-digit numbers.
9. **Digits: 3, 8, 0, 2, 7, 4**  
Write the greatest and smallest 6-digit numbers.
10. **Digits: 9, 1, 5, 0, 4, 8**  
Write the greatest and smallest 6-digit numbers.

**Answers**

1. \_\_\_\_\_ is the successor of 49,999

**Step:**

**Successor means the number that comes after a number.**

$$49,999 + 1 = 50,000$$

**Answer: 50,000**

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2. The predecessor of 1,00,040 is \_\_\_\_\_

**Step:**

**Predecessor means the number that comes before a number.**

$$1,00,040 - 1 = 1,00,039$$

**Answer: 1,00,039**

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3. Find the successor of the following

*(Successor = Number + 1)*

a) 9,10,999

$$9,10,999 + 1 = 9,11,000$$

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b) 39,09,099

$$39,09,099 + 1 = 39,09,100$$

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c) 42,020

$$42,020 + 1 = 42,021$$

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d) 39,199

$$39,199 + 1 = 39,200$$

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e) 45,699

$$45,699 + 1 = 45,700$$

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4. Find the predecessor of the following

*(Predecessor = Number - 1)*

a) 80,010

$$80,010 - 1 = 80,009$$

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b) 3,00,100

$$3,00,100 - 1 = 3,00,099$$

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c) 5,00,000

$$5,00,000 - 1 = 4,99,999$$

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d) 1,10,000

$$1,10,000 - 1 = 1,09,999$$

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e)  $7,77,777$

$$7,77,777 - 1 = 7,77,776$$

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5. Write the greatest and smallest numbers using the digits only once

Rule

✓ Greatest number: Arrange digits in descending order

✓ Smallest number: Arrange digits in ascending order

✓ A number cannot start with 0

a) Digits: 6, 5, 0, 8

Greatest number:

8, 6, 5, 0 → 8650

Smallest number:

0 cannot come first

5, 0, 6, 8 → 5068

✓ Answer:

Greatest = 8650

Smallest = 5068

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b) Digits: 7, 5, 2, 3

Greatest number:

7, 5, 3, 2 → 7532

**Smallest number:**

**2, 3, 5, 7 → 2357**

**Answer:**

**Greatest = 7532**

**Smallest = 2357**

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**c) Digits: 3, 9, 1, 8**

**Greatest number:**

**9, 8, 3, 1 → 9831**

**Smallest number:**

**1, 3, 8, 9 → 1389**

**Answer:**

**Greatest = 9831**

**Smallest = 1389**

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**d) Digits: 3, 0, 7, 1, 3**

**Greatest number:**

**7, 3, 3, 1, 0 → 73310**

**Smallest number:**

**0 cannot come first**

**1, 0, 3, 3, 7 → 10337**

**Answer:**

**Greatest = 73310**

**Smallest = 10337**

e) Digits: 4, 2, 0, 1, 8

Greatest number:

8, 4, 2, 1, 0 → 84210

Smallest number:

0 cannot come first

1, 0, 2, 4, 8 → 10248

✓ Answer:

Greatest = 84210

Smallest = 10248

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### 6. Build the Greatest and Smallest Numbers

1. Digits: 4, 7, 1, 9

Greatest: 9741

Smallest: 1479

2. Digits: 5, 0, 8, 3

Greatest: 8530

Smallest: 3058

*(0 cannot be placed at the beginning)*

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3. Digits: 6, 2, 9, 4

**Greatest: 9642**

**Smallest: 2469**

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**4. Digits: 3, 0, 5, 9**

**Greatest: 9530**

**Smallest: 3059**

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**5. Digits: 8, 1, 7, 0, 5**

**Greatest: 87510**

**Smallest: 10578**

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**6. Digits: 2, 9, 4, 6, 1**

**Greatest: 96421**

**Smallest: 12469**

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**7. Digits: 7, 3, 0, 8, 2**

**Greatest: 87320**

**Smallest: 20378**

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**8. Digits: 5, 4, 9, 1, 6**

**Greatest: 96541**

**Smallest: 14569**

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**9. Digits: 3, 8, 0, 2, 7, 4**

**Greatest: 874320**

**Smallest: 203478**

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**10. Digits: 9, 1, 5, 0, 4, 8**

**Greatest: 985410**

**Smallest: 104589**

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