

# Patel Public School

Date:- 01/04/2020

Class:- VI

Subject:- Mathematics

Chapter No.:- 1

Worksheet No.:-1

Name of the chapter:- Knowing Our Numbers

## General instructions:

- Solve all the questions by your own .
- Answer key of this worksheet will be provided within 2 days.

Q.1. Which one is the greatest?

- (a) 467,2345            (b) 2675,2648            (c) 7709, 7907            (d) 7091,7709

Q.2. Write the greatest and smallest number of the following as suggested:

- (a) 29705, 3420,30156, 27095  
(b) 49560, 46590,40956,45960  
(c)79075, 77095, 79775, 78092  
(d)10889,10988,19088,18099

### Steps to be followed:

Sol.2(a): Greatest no.- 30156  
Smallest no. - 3420

Q.3. Arrange the following numbers in ascending and descending order as suggested:

- (a)14676, 16746, 12431, 16752  
(b)23066, 20366,23064,24063,23067  
(c)10895,18095,10995, 19708, 19805

### Steps to be followed:

Sol.3(a): Ascending Order  
 $12431 < 14676 < 16746 < 16752$   
Descending Order  
 $16752 > 16746 > 14676 > 12431$

Q.4. Using the digits 2,3,9,6 write

- (a) the greatest four digit number  
(b) the smallest four digit  
(c) the greatest five digit number  
(d) the smallest six digit number

### Steps to be followed:

Sol.4(c): Given digits: 2,3,9,6  
To form greatest no. arrange the digits in descending order :  $9 > 6 > 3 > 2$   
Greatest 5-digit no. = 99632  
(repeat the greatest digit required no. of times)

Q.5. Change the positions ,if required ,to get the smallest and greatest six digit number as suggested.

- (a) 987215    (b) 239760    (c) 245056    (d) 725007    (e) 481230

Q.6. Use the given digits to make the greatest and smallest four digit numbers.

- (a) 2,8,9,7    (b)9,8,4,2    (c)4,5,0,7    (d)1,4,9,6    (e)3,4,0,5

Q.7. Make the greatest and smallest 5 digit number by using the following digits:

- (a) 3,9,7    (b) 9,0,5    (c) 0,5,7    (d)9,5,2

### Steps to be followed:

Sol.5.(c) 725007  
 $0 < 2 < 5 < 7$  (arrange digits in ascending order)  
Smallest no.- 200577 (0 cannot be at left most place)  
 $7 > 5 > 2 > 0$  (Arrange digits in descending order)  
Greatest No.-775200

Q.8. Make the greatest and smallest four digit numbers using 4,1,9,7 with the conditions given: (as suggested)

- (a) 4 at tens place                      (b) 9 at hundreds place  
(c) 7 at ones place                      (d) 1 at thousand place

### Steps to be followed:

Sol.8(a) 1. Fix the digit 4 at tens place and arrange rest digits at its required place.

Smallest no.

1	7	<u>4</u>	9
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Greatest no.

9	7	<u>4</u>	1
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### Notes for reference:

#### **1. Procedure of forming the greatest number without repeating any digit.**

(a) Arrange the digits in **descending order**.

(b) The numbers so formed is greatest no.

Example:- Form greatest numbers using 4,6,2,7

Sol: Arrange digits in descending order:  $7 > 6 > 4 > 2$

Greatest no. formed = 7642

#### **2. Procedure of forming the smallest number without repeating any digit.**

(a) Arrange the digits in **ascending order**.

(b) The numbers so formed is smallest no.

Example(a):- Form smallest numbers using 4,6,2,7

Sol: Arrange digits in ascending order:  $2 < 4 < 6 < 7$

Smallest no. formed = 2467

Example(b) Form smallest number using 4,0,3,7

Sol: Arrange digits in ascending order:  $0 < 3 < 4 < 7$

Smallest no. formed = 3047

( Note: Whenever one of the given digit is 0, it cannot be written at the extreme left for the smallest number, it is written in the second place from the left. )

#### **3. Procedure of forming the greatest number with repeating digits.**

(a) Arrange the given digits in descending order.

(b) Since you have to make greatest 5-digit number using 3 digits, repeat the greatest digit required number of times.

Example:- Make 5 digit greatest number using digit 1,2,5

Sol: Arrange in descending order:  $5 > 2 > 1$

Greatest 5 digit no. using 1,2,5 = 55521 (By repeating the greatest digit )

#### **4. Procedure of forming the smallest number with repeating digits.**

(a) Arrange the given digits in ascending order.

(b) Since you have to make smallest 5-digit number using 3 digits, repeat the smallest digit required number of times.

Example:- Make 5 digit smallest number using digit 3,6,2

Sol: Arrange in ascending order:  $2 < 3 < 6$

Smallest 5 digit no. using 3,6,2 = 22236 (By repeating the smallest digit )

### Web Sites:

1. <http://youtu.be/FGumXuiOnnE>

2. <https://www.math-only-math.com/examples-on-the-formation-of-greatest-and-the-smallest-number.html>

**STAY AT HOME, STAY SAFE**



