GIRLS' HIGH SCHOOL & COLLEGE, PRAYAGRAJ

WORKSHEET No. 4
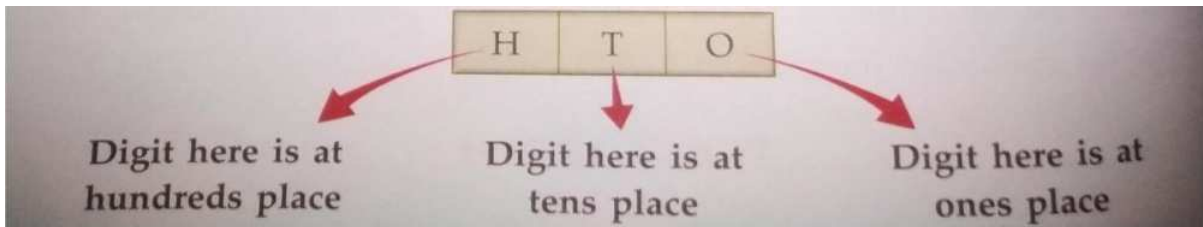**SESSION : 2020-21**
CLASS : 2 SEC. : A - F
SUBJECT : MATHEMATICS
CHAPTER 2 : MORE ABOUT 3 - DIGIT NUMBERS
TOPIC 1: PLACE VALUE, FACE VALUE & EXPANDED FORM

(Instruction - Parents must make the child revise the ones and tens places done in class 1 before starting with the topic.)

Place Value – The place value of a digit in a number is according to its place.

For example - Let us take the number 672.

6 is at hundreds place, so its place value is 6 × 100 = <u>600</u>

7 is at tens place, so its place value is 7 × 10 = <u>70</u>

2 is at ones place, so its place value is 2 × 1 = <u>2</u>

   *The place value of 0 is always 0.

Face Value – The face value of a digit is the digit itself.

For example – Let us take the number 368.

The face value of 3 is <u>3</u>.

The face value of 6 is <u>6</u>.

The face value of 8 is <u>8</u>.

Expanded Form - A numeral for a number can be written as a sum of place value of

its digits. For example – Let us take the number 465.

465 = 400 + 60 + 5

       OR

465 = 4 hundreds + 6 tens + 5 ones

EXERCISE

I. Write the <u>place</u> of the given digits -

(a) In 248, 2 is at <u>hundreds</u> place.
(b) In 639, 3 is at _____ place.
(c) In 950, 0 is at _____ place.
(d) In 801, 8 is at _____ place.

II. Write the <u>numbers</u> from the given <u>place</u> of digits -

(a) 5 is at hundreds place, 2 is at tens place and 4 is at ones place - __524__

(b) 2 is at hundreds place, 7 is at tens place and 3 is at ones place - _____

(c) 9 is at hundreds place, 6 is at tens place and 1 is at ones place - _____

(d) 6 is at hundreds place, 0 is at tens place and 9 is at ones place - _____

III. Write the <u>place value</u> of the given digits -

(a) 7 in 279 is __70__   (b) 4 in 483 is _____   (c) 9 in 259 is _____   (d) 0 in 306 is _____

IV. Write the <u>numbers</u> from the given <u>place value</u> of digits –

(a) Place value of 3 is 300, 4 is 40 and 7 is 7 - __347__

(b) Place value of 7 is 700, 9 is 90 and 8 is 8 - _____

(c) Place value of 9 is 900, 2 is 20 and 6 is 6 - _____

(d) Place value of 2 is 200, 1 is 10 and 5 is 5 - _____

V. Write the <u>face value</u> of the given digits -

(a) 6 in 256 is __6__   (b) 4 in 450 is _____   (c) 2 in 291 is _____   (d) 1 in 315 is _____

VI. Write the <u>expanded form</u> of the following numerals.

(a) 423 = __400__ + __20__ + __3__ = __4__ hundreds + __2__ tens + __3__ ones.

(b) 298 = _____ + _____ + ____ = ____ hundreds + ____ tens + ____ ones.

(c) 709 = _____ + _____ + ____ = ____ hundreds + ____ tens+ ____ ones.

(d) 873 = _____ + _____ + ____ = ____ hundreds + ____ tens+ ____ ones

TOPIC 2 : FORMING THE GREATEST AND SMALLEST NUMBER

(Instruction - Parents must make the child revise ascending and descending done in previous worksheet before starting with the topic.)

Let us take any three digits - 2, 5 and 8

For example 1)To make the **greatest** number, we arrange the given digits in descending order.

We know that 8 is greater than 5 and 5 is greater than 2.

Since, 8 > 5 > 2, so, the greatest number is 852.

For example 2) Similarly, to make the **smallest** number, we arrange the given digits in ascending order.

We know that 2 is smaller than 5 and 5 is smaller than 8.

Since, 2 < 5 < 8, so, the smallest number is 258.

*Note – If zero is one of the digits while forming the smallest number, it is written in place after the **highest** place.

For example 3) Let us take any three digits - 6, 0, 3.

On arranging the given digits in ascending order, we get 036.

A number cannot begin with 0. The smallest digit (other than zero) is 3.

So, the smallest number is 306.

EXERCISE

I. Make the greatest 3 – digit numbers. Repetition of any digit is not allowed.

Digits	Greatest
(a). 7 , 4 , 9	____947____
(b). 0 , 2 , 3	_____
(c). 2 , 8 , 6	_____
(d). 4 , 0 , 1	_____
(e). 1 , 7 , 9	_____

II. Make the smallest 3 – digit numbers. Repetition of any digit is not allowed.

Digits	Smallest
(a). 9 , 6 , 4	____469____
(b). 8 , 2, 6	_____
(c). O , 5 , 3	_____
(d). 4 , 9 , 2	_____
(e). 1 , 7 , 0	_____

III. Make the greatest and smallest 3 – digit numbers. <u>Repetition of a digit is allowed.</u>

Digits	Greatest	Smallest
(a). 9 , 3 , 4	999	444
(b). 3 , 2, 6	_____	_____
(c). 7 , 0 , 3	_____	_____
(d). 5 , 8 , 2	_____	_____
(e). 1 , 5 , 0	_____	_____

REVISION

Q1. Write the number name for 921.   _____

Q2. Write two numerals which come in between 899 and 902. _____ and _____.

Q3. Write the largest three digit number.   _____

Q4. Take the number 895. Which digit is at hundreds place? Which digit is at tens place? Which digit is at ones place? _____, _____ and _____.

Q5. Write the face value of digits for the number 675. _____.

Q6. Which number can be written in expanded form as 200 + 50 + 2? _____

Q7. Write the greatest and smallest three digit numbers that can be written using digits 7, 4 and 3 without repeating any digit. _____ and _____ .

Q8. Write the number with 1 at hundreds place, 0 at tens place and 7 at ones place.

Q9. Arrange 209, 613, 926 and 897 in decreasing order. ____, ____, ____ and ____.

Q10. Arrange 213, 556, 435 and 340 in increasing order. ____, ____, ____ and ____.

Q11. Count forward and fill in the blanks.

   (a)   224, ___, ___, ___, ___.
   (b)   892, ___, ___, ___, ___.

Q12. Count backward and fill in the blanks.

   (a) 559, ___, ___, ___, ___.
   (b) 999, ___, ___, ___, ___.

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