**18th May 2020 Jesus and Mary School Module-3**

 **Class-5**

 **Mathematics**

 **Chapter- Estimation**

Some situations we can take the liberty of rounding off a number to make the calculation easy.

Let us take an example, if your salary is ₹ 4269 so I can say that your salary is ₹ 4000 approximately.

We can estimate a given number to the nearest 10, 100 or 1000 etc.

**I. Estimation of numbers to the nearest tens:**

**Example:** Estimate (round off) 645 to the nearest tens. Here we see ones place digit which is equal to 5 hence tens digit will be increased by 1 and ones place digit will be replaced by 0 (zero).

 64 5

 Equal to 5

 Increased by 1

 So round off value of 645 is 650

**II. To the nearest hundreds**

**Example:** Estimate 12,532 to the nearest hundreds. Here we see that tens place digit is less than 5, hence hundreds place digit will not be changed and tens and ones place digit will be replaced by 0.

 1 2 5 3 2

 Less than 5

 No change

So estimated number is 12,500.

**III. To the nearest thousands**

**Example:** Estimate 25,825 to the nearest thousands here we see that hundreds place digit is greater than 5 so thousands place digit will be increased by 1 and hundreds, tens and ones place digit will be replaced by 0.

2 5 8 2 5

 Greater than 5

 Increased by 1

So estimated number is 26,000.

**Worksheet – 3**

**Note:** Worksheet -3 has to be done in your copy.

**Q1.** Estimate the following numbers to the nearest tens.

1. 19 **(b)** 24 **(c)** 34,26

**Q2.**Estimate the following numbers to the nearest hundreds.

1. 456 **(b)** 16,386 **(c)** 20,134

**Q3.** Estimate the following numbers to the nearest thousands.

1. 5,930 **(b)** 6,120 **(c)** 57,896

**Q4.** Estimate the following numbers to the nearest ten thousand.

1. 4,57,896 **(b)** 56,346 **(c)** 93,752

**Solution of worksheet – 2 uploaded on 11th May 2020**

**Ans1. (a) LXVIII (b) CL XXVIII (c) CDXCV (d) CDXII (e) XC (f) LXXVI**

**Ans2. (a)** 89 **(b)** 157 **(c)** 444 **(d)** 109 **(e)** 41 **(f)** 75

**Ans3. (a) XV < XIX <XX < XXI**

**(b) XXIX < XL < XLI < XLII**

**(c) XIX < XXII < XXV < XXVI**

**(d) XLI < XLIV < XLV < L**

**Ans4. (a) X (b) XXI (c) XC (d) XLIII (e) XXXI (f) LXXI**

**Ans5. (a) XVI (b) II (c) IV (d) IX (e) I (f) XIV**

**Ans6. (a) XVI , XVII , XVIII , XIX , XX , XXI**

**(b) XL , XLI , XLII , XLIII , XLIV , XLV**

**(c) XXIV , XXV , XXVI , XXVII , XXVIII , XXIX**

**(d) CDX , CDXI , CDXII , CDXIII , CDXIV , CDXV**

**(e) XXXII, XXXIII , XXXIV , XXXV , XXXVI , XXXVII**