**01/06/2020 JESUS AND MARY SCHOOL AND COLLEGE MODULE-5**

**CLASS – 4 (MATHS)**

**CHAPTER- AN INTRODUCTION TO ROMAN NUMERALS**

**INTRODUCTION**

Roman numerals is a number system that was originated by ancient Roman and remained the usual way of writing numbers throughout Europe well into the Late Middle Ages. Numbers in this system are represented by combinations of letters from the Latin alphabet. Modern usage employs seven symbols, each with a fixed integer value.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Symbol** | **I** | **V** | **X** | **L** | **C** | **D** | **M** |
| **Value** | **1** | **5** | **10** | **50** | **100** | **500** | **1000** |

We will study the first three symbols in this class. These are: $I=1 , V=5 , X=10$

**RULES FOR WRITING THE ROMAN NUMERALS**

**Rule 1:** If a symbol is repeated, the value of the symbol is added as many times as it is repeated.

 Example**:** $III=1+1+1=3$

$$XXX=10+10+10=30$$

**Rule 2:** If a symbol of a smaller value is written to the left of a symbol of greater value, the smaller

 value is subtracted from the greater value.

 Example: $IV=5-1=4$

$$IX=10-1=9$$

**Rule3:** If a symbol of a smaller value is written to the right of a greater value, the smaller value is

 added to the greater value.

 Example:$VII=5+1+1=7$

$$XV=10+5=15$$

**Rule 4:** For writing numerals beyond 10, divide the numerals in groups of 10s and 1s, and then write

 the Roman numeral according to those groups.

 Example: $14=10+4=XIV$

 $34=30+4=10+10+10+4=XXXIV$

**WORKSHEET-1**

**Ques.1.** Write the Hindu-Arabic numerals for the following Roman numerals.

 a) VIII b) XIX c) XVII d) XI

**Ques.2.** Write the Roman numerals for the following Hindu-Arabic numerals.

 a) 25 b) 16 c) 36 d) 38

**Ques.3.** Write the predecessor and the successor.

 a) XVI b) XXXI c) XIX d) IX

**Ques.4.** Complete the series.

 a) XVI, XVII, \_\_\_, XIX. b) XXIV, XXV, \_\_\_, XVII.

 c) XXXII, XXXIII, \_\_\_, XXXV. d) VI, VII, \_\_, IX.

**Ques.5.** Solve and write the answers in Roman numerals.

 a) 20-4 b) 30+6 c) VIII + IX d) XXXVI – IX

**Ques.6.** Write the Roman numerals for all the numerals from **16 to 25.**

**Note: Please do this assignment in your copies. It will be checked when the school re-opens.**

**SOLUTION TO WORKSHEET-2**

**(Uploaded on 25/05/2020)**

**Answer-1**

 Numerals Place value Period

 (a) 2,93,412 2 ones

 (b) 7,03,516 7,00,000 lakhs

 (c) 3,24,173 70 ones

 (d) 5,89,201 80,000 Thousands

**Answer-2**

1. 38,274, 48,921, 98,217, 1,23,017
2. 1,222, 1,331, 1,441, 1,551

**Answer-3**

1. 1,85,000, 1,08,005, 1,00,805, 1,00,085
2. 5,231, 3,512, 3,215, 1,235

**Answer-4**

|  |  |  |
| --- | --- | --- |
| Digits | Smallest numeral | Greatest numeral |
| 1. 1,3,4,6
 | 1,346 | 6,431 |
| 1. 8,0,9,7
 | 7,089 | 9,870 |
| 1. 9,3,0,8
 | 3,089 | 9,830 |
| 1. 5,2,0,1
 | 1,025 | 5,210 |

**Answer-5**

1. 550 (b) 70

**Answer-6**

1. 600 (b) 5,600

**Answer-7**

 (a) 8,000 (b) 12,000

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