Ch-2 Roman Numerals

Points to Remember:-

1) The Hindu-Arabic numeration system uses 10 digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 to write any numeral.

2) The Roman numeral uses 7 basic symbols to write any number. These symbols are I , V , X , L , C , D and M.

3) There is no symbol for zero in the Roman system.

4) Roman numerals are used in analogue clocks and watches , to name the classrooms in the schools etc.

5) Same symbol should not repeat more than 3 times together.

6) Symbols V , L and D are never repeated and never subtracted.

7) Symbol I can be subtracted only once.

The table given below shows the Roman numerals with their respective Hindu-Arabic numerals are as follows:-

Roman Numerals	I	V	X	L	C	D	M
Hindu-Arabic Numerals	1	5	10	50	100	500	1000

Self Practice 2

Page no - 29

1. **Write the Hindu-Arabic numerals for each Roman numeral.**

   (a) IX _____

   (b) XX _____

   (c) XII _____

   (d) VII _____

   (e) XXXVII _____

   (f) XXIX _____

   (g) XXVIII _____

   (h) XXXIV _____

Solution1:-

(a) IX = 10 – 1 = 9

(b) XX = 10 + 10 = 20

(e) XXXVII = 10 + 10 + 10 + 5 + 2

= 30 + 7 = 37

(f) XXIX = 10 + 10 + (10 – 1)

= 20 + 9 = 29

(g) XXVIII = 10 + 10 + 5 + 3

= 20 + 8 = 28

<div style="border:1px solid red">

H.W

(c) , (d) and (h) are homework

</div>

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

    (a) 2 _____   (b) 4 _____

    (c) 16 _____   (d) 32 _____

    (e) 27 _____   (f) 36 _____

    (g) 19 _____   (h) 39 _____

Solution 2:-

(a) 2 = I + I = II

(c) 16 = 10 + 6 = X + VI = XVI

(d) 32 = 30 + 2 = XXX + II = XXXII

(g) 19 = 10 + 9 = X + IX = XIX

<div style="border:1px solid red">

H.W

(b) , (e) ,(f) and (h) are homework

</div>

3. **Fill in the boxes by using >, < or = symbol to make a correct sentence.**

    (a) XII ☐ 13   (b) XXIX ☐ 29   (c) XXV ☐ 26

    (d) XXII ☐ 19   (e) XXXVI ☐ 33   (f) XXXI ☐ 32

Solution 3:-

(a) **XII** _<_ 13   (b) **XXIX** _=_ 29   (c) **XXV** _<_ 26

   12   29   25

<div style="border:1px solid red">

H.W

(d) , (e) and (f) are homework

</div>

Q4. Which of the following Roman numerals are meaningless?

(a) XXXVIII (b) VXX (c) IIX

(d) XXVII (e) VX (f) VVVX
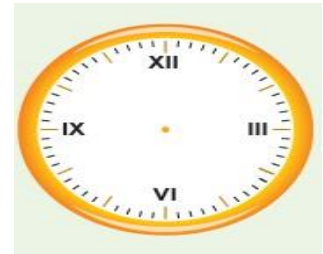
(g) VV (h) XIX

Solution4:-

(a) XXXVIII (b) | VXX | (c) | IIX | (d) XXVII

H.W
(e), (f), (g) and (h) are homework

Q5. Write the correct Roman numerals on the dial of the clock given alongside.

Solution5:- This question is homework .
Do it in your book.

6. **Write the predecessor of the following in Roman numerals.**

(a) XXIV _____

(b) XXX _____

Solution 6:-

(a) XXIV= 24

Predecessor = given number − 1

= 24 − 1

= 23

Therefore, the answer is 23 = XXIII

H.W
(b) is homework

7. **Write the successor of the following in Roman numerals.**

(a) XXXVIII _____ (b) XIV _____

Solution 7:-

(b) XIV = 14

Successor = given number + 1

= 14 + 1

= 15

Therefore , the answer is 15 = XV

H.W
(a) is homework