Topic: Number series and coding decoding
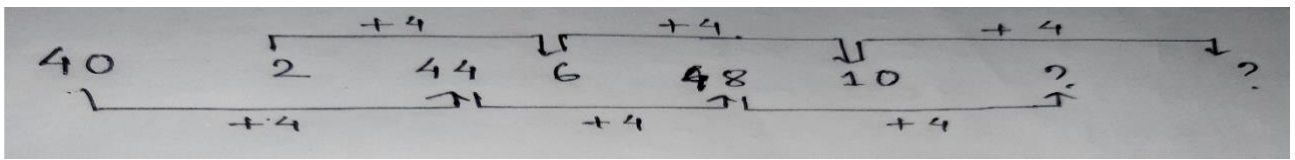
MMRWS-8(Answer key and hint)

1. Find the missing number :

   40 , 2 , 44 , 6, 48 , 10 , ? ,?

       a) 34 , 6   b) 52 , 14   c) 52 , 16

       Ans :

       48 + 4 = 52 and 10 + 4 = 14

2. If H = 8 and HAT = 29, find how BOX = ?

       a) 42   b) 41   c) 51

     Ans : H = 8

      H = 8 , A = 1 , T = 20 =➔ 8 + 1 +20 = 29

NOW , B = 2 , O = 15 , X = 24 ➔ 2 + 15 + 24 = 41

3. If GARMENT is written as 20269142213, how is INDULGE written in that code?

       a) 1813236152022   b) 45679900 8   c) 1813326152022

   Ans . Correct Option: A

In this question we have to count places of alphabets from the end point Z.

Suppose Z = 1, Y = 2, X = 3 ……. A = 26.

Then,

GARMENT is written as ⇒20, 26, 9, 14, 22, 13, 7

Similarly,

INDULGE ⇒ 18, 13, 23, 6, 15, 20, 22

4. If the letters in PRABA are coded as 27595 and THILAK are coded as 368451, how can BHARATI be coded?

    a) <mark>9657538</mark>   b) 9567568   c) 7890543

Ans: a)

PRABA

↓ ↓ ↓ ↓ ↓

27595

THILAK

↓ ↓ ↓ ↓ ↓ ↓

368451

Similarly;

BHARATI

↓ ↓ ↓ ↓ ↓ ↓ ↓

9657538

5. In a certain code **COURSE** is written as **ESRUOC**. How can **BREATH** be written in that code?

  a) HTAERB   b) HTBREA   c) HATEBR

Ans. . Correct Option: a)

  C O U R S E = E S R U O C

  Letters have been written in reverse order

  Similarly;

  B R E A T H = H T A E R B

6. 2, 12, 36, 80, 150, ?

  a) 250   b) 252   c) 254

  Ans : 252

  [This question is out of syllabus]

7. 8, 7, 11, 12, 14, 17, 17, 22, ?

  a) 27   b) 26   c) 20

Ans.   3rd term = 1st term + 3 , and   4th term =2nd term + 5

  It's a alternative series .

Ans : 17 + 3 = 20 .

8. 2, 6, 12, 20, 30, 42, 56, ?

  a) 72   b) 62   c) 61

Ans : 6 -2 = 4 ,

12 – 6 = 6

20 – 12 = 8

30 – 20 = 10

42 – 30= 12

56 – 42 = 14

Therefore, 56 + 16 = 72

9. 20, 19, 17, ?, 10, 5 .
a) 14   b) 16   b) 15

Ans :   20 – 19 = 1

   19 - 17 = 2

   17 – 3 = 14

Therefore, 14

10. If green means red, red means yellow, yellow means blue, blue means orange and orange means green, what is the colour of clean sky ?

a) Yellow   b) Red   c) Green