Primary [Classes V – VI]
(23/02/2021)

1. A three digit number with digits A, B, C in that order is divisible by 9. A is an odd digit and C is an even digit. B and c are non zero. The number of such three digit numbers is?
    a) 4
    b) 8
    c) 16
    d) 20

2. The number of non negative integers which are less than 1000 and end with only one zero is.
    a) 90
    b) 99
    c) 91
    d) 100

3. The digits of the year 2000 add up to 2. In how many years has it happened since the year 1 till this year (2021)?
    a) 3
    b) 6
    c) 9
    d) 10

4. A certain number has exactly eight factors including 1 and itself. Two of it's factors are 21 and 35. The number is
    a) 105
    b) 210
    c) 420
    d) 525

5. The least number of numbers to be deleted from the set {1,2,3,4,…… ,16} so that the product of the remaining numbers is a perfect square is
    a) 1
    b) 2
    c) 3
    d) 4

6. The largest positive integer which cannot be written in the form 5m + 3n where m and n are positive integers is?
    a) 30
    b) 12
    c) 7
    d) 15

7. A = {a,b,c,d} is a set of five integers. We pick two integers out of A and add them. The following six sums are obtained.

   0,2,4,8,10,12

   Find the five integers in Set A?

8. Three counters A, B and C are colored with three different colors red, blue and white. Of the following statements only one is true.
   1. A is red.
   2. B is not red.
   3. C is not blue.

   What is the color of each counter?

Additional Practice Questions:

1. *The number of non negative integers which are less than 1000 and end with a zero is.*
2. *The digits of the year 2003 add up to 5. In how many years has it happened since the year 1 till this year (2021)?*
3. *A certain number has exactly twelve factors including 1 and itself. Two of it's factors are 21 and 35. The number of possible values that the number can take is*
4. *The largest positive integer which cannot be written in the form 5m + 3n where m and n are non-negative integers is?*