



# VIDYA BHAWAN, BALIKA VIDYAPITH

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(Affiliated to CBSE up to +2 Level)

Class : 8<sup>th</sup>

Subject: Mathematics

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## Playing with Numbers

### Fill In The Blanks

1. A two digit number a b can be written in standard form as .....
2. Largest 3-digit number which is divisible by 6 is .....
3. If we add ..... to 194562 then it is divisible by 5 and 10 both.
4. If we subtract ..... from 53214 then the number so obtained is divisible by 8.
5. Smallest 4-digit number which is divisible by 7 is .....

### True(T) Or False(F)

1. If a number is divisible by 3 then it is also divisible by 9.
2. If a number is divisible by 8 then it is also divisible by 4.
3. If a number is divisible by 12 then it is also divisible by both 3 and 4.
4. If sum of two consecutive odd numbers is always divisible by 4.
5. If two numbers are co-prime at least one of them must be a prime number.

### Short Answer Type Questions

1. If  $35a6$  is divisible by 3, where 'a' is a digit, what are the possible values of 'a'?
2. If  $67y19$  is multiple by 9, where 'y' is a digit, what are the possible values of 'y'?
3. If  $15x2$  is multiple by 4, where 'x' is a digit, what are the possible values of 'x'?
4. If  $67x19$  is divisible by 11, where 'x' is a digit, what are the possible values of 'x'?

### Long Answer Type Questions

Find the value of letters in each of the following:

$$\begin{array}{r} 1. \quad B \ 9 \\ + 4 \ A \\ \hline 6 \ 5 \end{array}$$

$$\begin{array}{r} 2. \quad A \ B \\ + 3 \ 7 \\ \hline 6 \ A \end{array}$$

$$\begin{array}{r} 3. \quad 1 \ 2 \ A \\ + 6 \ A \ B \\ \hline A \ 0 \ 9 \end{array}$$

$$\begin{array}{r} 4. \quad B \ A \\ \times B \ 3 \\ \hline 5 \ 7 \ A \end{array}$$

$$\begin{array}{r} 5. \quad A \\ \times 5 \\ \hline B \ A \end{array}$$

$$\begin{array}{r} 6. \quad A \ B \\ \times B \\ \hline 9 \ B \end{array}$$