

- If $A3 + 8B = 150$, then the value of $A + B$ is -----.
- If $5A + 53 = 65$, then the values of A and B is ----- and -----.
- A five-digit number $AABAA$ is divisible by 33. Write all the numbers of this form.
- Find the least value that must be given to number a , so that the number $91876a2$ is divisible by 8.
- Find the value of the letters in each of the following questions.

$$\begin{array}{r} 1\ B\ A \\ +\ A\ B\ A \\ \hline 8\ B\ 2 \end{array}$$

6.

$$\begin{array}{r} A\ B \\ -\ B\ 7 \\ \hline 4\ 5 \end{array}$$

- If $27 \div A = 33$, then find the value of A
- 212×5 is a multiple of 3 and 11. Find the value of x .
- Find the value of k , where $31K2$ is divisible by 6
- $1y3y6$ is divisible by 11. Find the value of y .
- $756x$ is a multiple of 11, find the value of x
- A three-digits number 203 is added to the number 326 to give a three-digits number $5b9$ Which is divisible by 9. Find the value of $b - a$.
- Let $E = 3$, $B = 7$ and $A = 4$. Find the other digits in the sum

$$\begin{array}{r} B\ A\ S\ E \\ +\ B\ A\ L\ L \\ \hline G\ A\ M\ E\ S \end{array}$$

- If from a two-digit number, we subtract the number formed by reversing its digits then the result so obtained is a perfect cube. How many such numbers are possible? Write all of them.
- Work out the following multiplication.

$$\begin{array}{r} 12345679 \\ \times \quad \quad 9 \\ \hline \\ \hline \end{array}$$

16.

Use the result to answer the following questions.

- What will be 12345679×45 ?
- What will be 12345679×63 ?

17. A four-digit number $abcd$ is divisible by 11, if $d + b = \text{---}$ or --- .
18. A number is divisible by 11, if the differences between the sum of digits at its odd places and that of digits at the even places is either 0 or divisible by --- .
19. If $B \times B = AB$, then either $A = 2, B = 5$ or $A = \text{---}$ $B = \text{---}$.
20. If the digit 1 is placed after a two-digit number whose ten's is t and one's digit is u , the new number is --- .
21. If $5A \times A = 399$, then the value of A is --- .