



Playing With Numbers Ex 5.1 Q1

Answer :

(i) Clearly, 69 and 96 are two numbers such that one can be obtained by reversing the digits of the other. Therefore, when the sum of 69 and 96 is divided by 11, we get 15 (sum of the digits) as quotient.

(ii) Clearly, 69 and 96 are two numbers such that one can be obtained by reversing the digits of the other. Therefore, when the sum of 69 and 96 is divided by 15 (sum of the digits), we obtain 11 as quotient.

Playing With Numbers Ex 5.1 Q2

Answer :

(i) We know that when $\overline{ab} - \overline{ba}$ is divided by 9, the quotient is $a - b$.

Therefore, when $(94 - 49)$ is divided by 9, the quotient is $(9 - 4 = 5)$.

(ii) We know that when $\overline{ab} - \overline{ba}$ is divided by $(a - b)$, the quotient is 9.

Therefore, when $(94 - 49)$ is divided by $(9 - 4 = 5)$, the quotient is 9.

Playing With Numbers Ex 5.1 Q3

Answer :

The sum of $(985 + 859 + 598)$ when divided by :

(i) 111

$$\text{Quotient} = (9 + 8 + 5) = 22$$

(ii) 22, i.e., $(9 + 8 + 5)$

$$\text{Quotient} = 111$$

(iii) 37 $\left(= \frac{111}{3}\right)$

$$\text{Quotient} = 3(9 + 8 + 5) = 66$$

Playing With Numbers Ex 5.1 Q4

Answer :

If $\overline{abc} - \overline{acb}$ is divided by 9, the quotient is $(b - c)$.

\therefore If $(985 - 958)$ is divided by 9, quotient $= (8 - 5) = 3$

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