

## EXERCISE 5(B)

### Question 1.

$$\begin{array}{r} 3A \\ + 25 \\ \hline B2 \end{array}$$

#### Solution:

$A = 7$  as  $7 + 5 = 12$ . We want 2 at units place and 1 is carry over.

Now  $3 + 2 + 1 = 6$

$B = 6$

Therefore,  $A = 7$  and  $B = 6$

$$\begin{array}{r} 37 \\ + 25 \\ \hline 62 \end{array}$$

### Question: 2

$$\begin{array}{r} 98 \\ + 4A \\ \hline CB3 \end{array}$$

#### Solution:

$A = 5$  as  $8 + 5 = 13$ . We want 3 at units place and 1 is carry over.

Now  $9 + 4 + 1 = 14$ .

$B = 4$  and  $C = 1$

Therefore,  $A = 5$  and  $B = 4$  and  $C = 1$

$$\begin{array}{r} 98 \\ + 45 \\ \hline 143 \end{array}$$

### Question: 3

$$\begin{array}{r} A1 \\ + 1B \\ \hline B0 \end{array}$$

#### Solution:

$B = 9$  as  $9 + 1 = 10$ . We want 0 at units place and 1 is carry over.

Now  $B - 1 - 1 = A$ .

$A = 9 - 2 = 7$

Therefore,  $A = 7$  and  $B = 9$

$$\begin{array}{r} 71 \\ + 19 \\ \hline 90 \end{array}$$

**Question: 4**

$$\begin{array}{r} 2AB \\ + AB1 \\ \hline B18 \end{array}$$

**Solution:**

$B = 7$  as  $7 + 1 = 8$ . We want 8 at unit place.

Now

$$7 + A = 11$$

$$A = 11 - 7 = 4$$

Therefore,  $A = 4$  and  $B = 7$

$$\begin{array}{r} 247 \\ + 471 \\ \hline 718 \end{array}$$

**Question: 5**

$$\begin{array}{r} 12A \\ + 6AB \\ \hline A09 \end{array}$$

**Solution:**

$$A + B = 9$$

$$\text{and } 2 + A = 10$$

$$A = 10 - 2 = 8$$

$$8 + B = 9$$

$$B = 9 - 8 = 1$$

Therefore,  $A = 8$  and  $B = 1$

$$\begin{array}{r} 128 \\ + 681 \\ \hline 809 \end{array}$$