

## 5.4 Numbers in Expanded Form

Expanded form of a number can be obtained by breaking it and using the place value of digits in the number.

**Example 1 :** Write the expanded form of number 48.

$$\begin{array}{r} 4 \quad 8 \\ \left. \begin{array}{l} \phantom{4} \phantom{8} \\ \phantom{4} \phantom{8} \end{array} \right\} \begin{array}{l} 8 \text{ ones } (8 \times 1 = 8) \\ 4 \text{ tens } (4 \times 10 = 40) \end{array} \end{array}$$

Expanded form of number  
 $48 = 40 + 8.$

**Example 2 :** Write the expanded form of number 90.

$$\begin{array}{r} 9 \quad 0 \\ \left. \begin{array}{l} \phantom{9} \phantom{0} \\ \phantom{9} \phantom{0} \end{array} \right\} \begin{array}{l} 0 \text{ ones } (0 \times 1 = 0) \\ 9 \text{ tens } (9 \times 10 = 90) \end{array} \end{array}$$

Expanded form of number  
 $90 = 90 + 0.$

### Exercise

Write the numbers given below in expanded form :

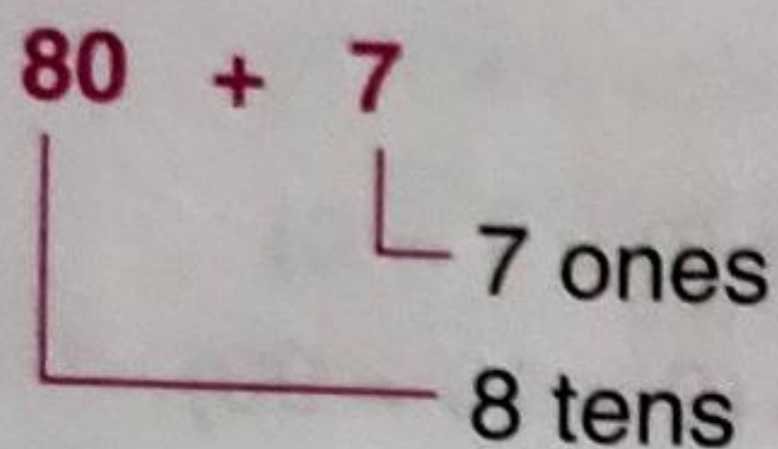
- 25 =  $20 + 5$
- 32 =  $30 + 2$
- 39 =  $30 + 9$
- 66 =  $60 + 6$
- 79 =  $70 + 9$
- 82 =  $80 + 2$
- 98 =  $90 + 8$
- 56 =  $50 + 6$
- 67 =  $60 + 7$
- 19 =  $10 + 9$
- 73 =  $70 + 3$
- 55 =  $50 + 5$

- 59 =  $50 + 9$
- 97 =  $90 + 7$
- 16 =  $10 + 6$
- 89 =  $80 + 9$
- 74 =  $70 + 4$
- 24 =  $20 + 4$
- 78 =  $70 + 8$
- 86 =  $80 + 6$
- 90 =  $90 + 0$
- 72 =  $70 + 2$
- 36 =  $30 + 6$
- 99 =  $90 + 9$

## 5.5 Numbers in Compact Form

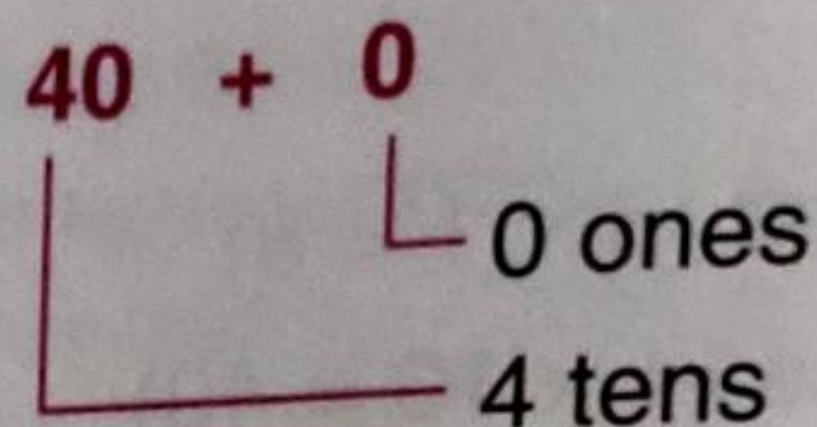
The compact form of a number is written using the digits 0-9 according to their place value.

**Example 1 :** Write  $80 + 7$  in compact form.



Compact form of  $80 + 7 = 87$

**Example 2 :** Write  $40 + 0$  in compact form.



Compact form of  $40 + 0 = 40$

### Exercise

Write in compact form

1.  $20 + 6 = 26$

2.  $30 + 6 = 36$

3.  $60 + 8 = 68$

4.  $30 + 8 = 38$

5.  $20 + 3 = 23$

6.  $40 + 7 = 47$

7.  $50 + 0 = 50$

8.  $00 + 2 = 2$

9.  $10 + 7 = 17$

10.  $60 + 2 = 62$

11.  $80 + 8 = 88$

12.  $50 + 2 = 52$

13.  $70 + 6 = 76$

14.  $60 + 4 = 64$

15.  $00 + 8 = 8$

16.  $00 + 1 = 1$

17.  $20 + 2 = 22$

18.  $60 + 6 = 66$

19.  $50 + 7 = 57$

20.  $60 + 9 = 69$

21.  $40 + 4 = 44$

22.  $30 + 3 = 33$

23.  $20 + 7 = 27$

24.  $30 + 9 = 39$