# Addition and Subtraction of Times

➡ **To add or subtract time we have to follow some basic steps:**

**Step 1:** Write the units on the top.

**Step 2:** Write the numbers in proper place below the units. Write zero in empty place.

**Step 3:** Now add or subtract as per the instruction given in question.

➡ **Let us understand with some examples:**

**Example 1:** Add 3 hrs 35 min 50 sec and 2 hrs 40 min 34 sec.

= 5 hrs 75 min 84 sec

= 5 hrs (60 + 15) min (60 + 24) sec

 = (5 + 1) hrs (15 + 1) min 24 sec

= **6hrs 16min 24sec**

| hrs | min | sec |
|-----|-----|-----|
| 3 | 35 | 50 |
| + 2 | 40 | 34 |
| 5 | 75 | 84 |

➡ **Explanation**

**Step 1**: As 60 sec = 1 min. so, 60 sec i.e., 1 min is carried to minutes column and 24 sec are left in seconds column. Now, we have 75 + 1 = 76 min.

**Step 2:** As 60 min = 1 hr. so, 60 min i.e., 1 hr is carried over to hour column and 76 – 60 = 16 are left in min column. Now, we have 5 + 1 = 6 hr.

# Addition and Subtraction of Times

**Example:** Subtract 3hrs 45 min 30 sec from 8 hrs 35 min 20 sec.

| hrs | min | sec |
|---|---|---|
| 8̶ 7 | 3̶5̶ 34(34+60=94) | 2̶0̶ 34(60+20=80) |
| - 3 | 45 | 30 |
| **4** | **49** | **50** |

**Explanation**

**Step 1:** As in seconds column 20 is smaller than 30, we cannot subtract 30 from 20. So, 1 min is borrowed from the minute column and we are left with 34 minutes in minute column.

Now, 1 min = 60 sec, this means 60 sec + 20 sec = 80 sec

We have 80 sec and we can subtract 30 sec from 80 sec.

80 sec – 30 sec = 50 sec.

**Step 2:** As in minutes column 34 is smaller than 45, we cannot subtract 45 from 34. So, 1 hr is borrowed from the hours column and we are left with 7 hrs in hours column.

Now, 1 hour = 60 min, this means 60 min + 34 min = 94 min

We have 94 min and we can subtract 45 min from 94 min.

94 min – 45 min = 49 min

**Step 3:** Now subtract 3 hrs from 7 hrs i.e., 7 – 3 = 4hrs