



Addition of Time

Understanding the Topic

Addition of time means finding the total time by adding hours and minutes.

We follow the 60-minute rule, where

- 60 minutes = 1 hour

How to Add Time

- Add minutes first.
- If the total is 60 or more, convert extra minutes into hours.
- Then add the hours.

Important Tips

- Always check if minutes go over 60.
- Write the final answer in hours and minutes.
- Use vertical or column method for better clarity.

Let us understand with an example:

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

Solution:

	hours	minutes	seconds
	3	35	50
+	2	40	34
	5	75	84

$$= 5 \text{ hrs } 75 \text{ min } 84 \text{ sec}$$

$$= 5 \text{ hrs } (60 + 15) \text{ min } (60 + 24) \text{ sec}$$

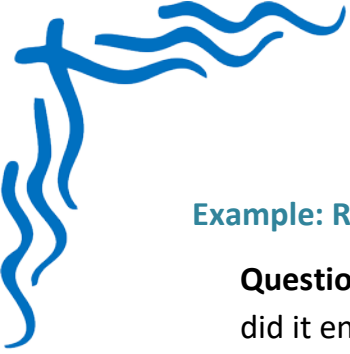
$$= (5 + 1) \text{ hrs } (15 + 1) \text{ min } 24 \text{ sec}$$

$$= 6 \text{ hrs } 16 \text{ min } 24 \text{ sec}$$

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.



Example: Real-life Situation (Moderate)

Question: A movie started at 2:00 PM and ran for 2 hours 40 minutes. What time did it end?

Solution:

2:00 PM + 2 hours = 4:00 PM

4:00 PM + 40 minutes = 4:40 PM

Answer: 4:40 PM

Example: Three Times Added (Moderate)

Question: Add 1 hour 20 minutes, 2 hours 35 minutes and 30 minutes.

Solution:

Minutes: $20 + 35 + 30 = 85 \rightarrow 1 \text{ hour } 25 \text{ minutes}$

Hours: $1 + 2 + 1 = 4$

Answer: 4 hours 25 minutes

Summary Points

- Add minutes first then hours.
- 60 minutes = 1 hour.
- Convert extra minutes into hours if needed.
- Write the final answer in hours and minutes.
- Useful in travel time, schedules, and daily routines.
- Use vertical addition for clear steps.
- Always check for carry-over from minutes to hours.
- Practice helps build speed and accuracy.
- Time addition helps in real-life planning.
- Label answers clearly with units (hours and minutes).