3rd Grade Math: Subtracting Hours and Minutes

What Are Hours and Minutes?

In 3rd grade, students learn to subtract **hours** and **minutes** to find out how much time has passed or how much time is left. Sometimes, subtraction involves **regrouping**, especially when you need to subtract more minutes than you have.

Steps for Subtracting Hours and Minutes

- 1. Subtract the minutes.
 - If the top number of minutes is smaller than the bottom number, **regroup** by borrowing 1 hour and converting it to 60 minutes.
- 2. Subtract the hours.
- 3. Combine the hours and minutes to get the total time.

Example 1: Subtracting Hours and Minutes Without Regrouping

Problem:

You spend 2 hours and 45 minutes at the park. You leave the park after 1 hour and 20 minutes. How much longer did you stay at the park?

Solution:

Subtract the minutes:

 $45 \, \text{minutes} - 20 \, \text{minutes} = 25 \, \text{minutes}$

· Subtract the hours:

2 hours - 1 hour = 1 hour

The total time left is 1 hour and 25 minutes.

Example 2: Subtracting Hours and Minutes With Regrouping

Problem:

You start watching a movie at 6:30 p.m., and it ends at 8:10 p.m. How long did the movie last?

Solution:

- First, subtract the minutes:
- You can't subtract 30 minutes from 10 minutes, so you need to **regroup**.
- Take 1 hour from 8:00 p.m., which leaves you with 7 hours, and add 60 minutes to 10 minutes:

$$60 + 10 = 70 \, \text{minutes}$$

Now subtract the minutes:

$$70 \, \text{minutes} - 30 \, \text{minutes} = 40 \, \text{minutes}$$

Subtract the hours:

$$7 \text{ hours} - 6 \text{ hours} = 1 \text{ hour}$$

The total time the movie lasted is 1 hour and 40 minutes.

ractice Problem: Subtracting Hours and Minutes

Problem:

You finish your homework at 5:45 p.m., and you started at 4:20 p.m. How much time did you spend doing homework?

Solution:

- Subtract the minutes:
- You can't subtract 45 minutes from 20 minutes, so regroup:

$$60 + 20 = 80 \, \text{minutes}$$

Now subtract the minutes:

$$80 \, \text{minutes} - 45 \, \text{minutes} = 35 \, \text{minutes}$$

· Subtract the hours:

$$4 \text{ hours} - 3 \text{ hours} = 1 \text{ hour}$$

The total time you spent on homework is 1 hour and 25 minutes.

Conclusion:

- When subtracting hours and minutes, **regroup** if needed by borrowing 1 hour and converting it to 60 minutes.
- This skill is useful for figuring out how much time has passed or how much time is left for activities. With practice, subtracting hours and minutes will become much easier!