



TDDBUDDY.COM

# Timesheet Calculator

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## **The Kata**

You are to develop a simple timesheet calculator application. It must take a start time in HH:mm format and an end time in HH:mm format. It must also take an optional break duration in HH:mm format to represent the duration of lunch. The result must be emitted in HH:mm format.

All times must be in 24-hour time format, no AM/PM.

Allow for users to invert the start and end times and still calculate the result properly.

**You may not use Timespan of other built-in DateTime capabilities to do this kata.**

## Examples

Start Time : 08:42  
End Time: 16:20  
Break Duration : 00:30  
Result : 07:08

Start Time : 17:02  
End Time: 08:09  
Break Duration : 00:35  
Result : 08:28

Start Time : 07:02  
End Time: 16:22  
Result : 09:20

## **Bonus**

1. Allow for three and 4 digit numbers to be entered without needing a : to separate HH from mm.
  - a. If three digits assume H:mm format.
2. Allow for the user to input AM/PM instead of only using 24-hour time. E.g 08:00 AM