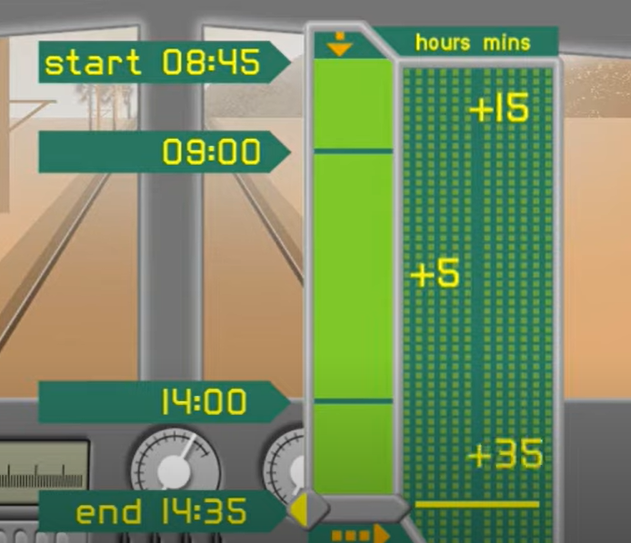
Tuesday 7th July



Calculating with time on a number line

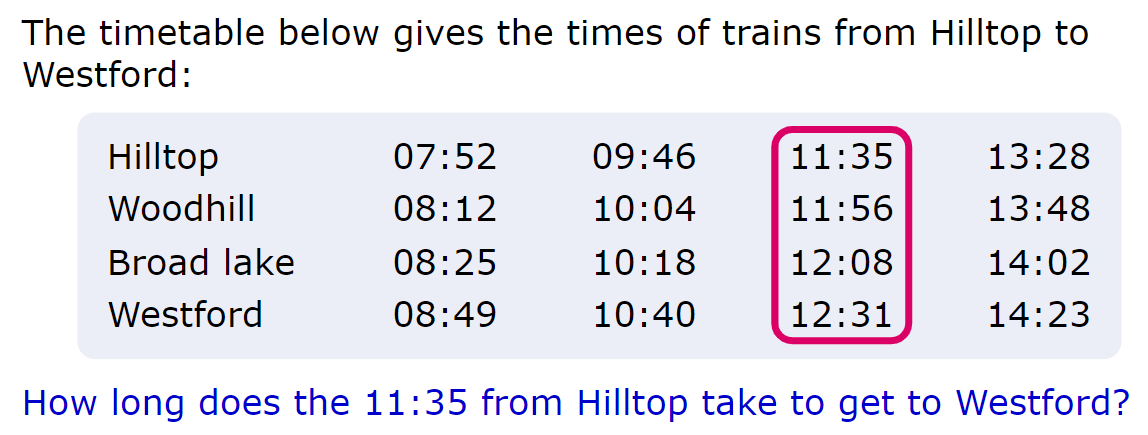
Watch the following Maths Mansion video – Doing time

<https://www.youtube.com/watch?v=gpNR2p2BwSA>

As you watch it, look at how they calculate using time. They use a vertical number line.

Calculating with time

Example



See loom video for explanation:

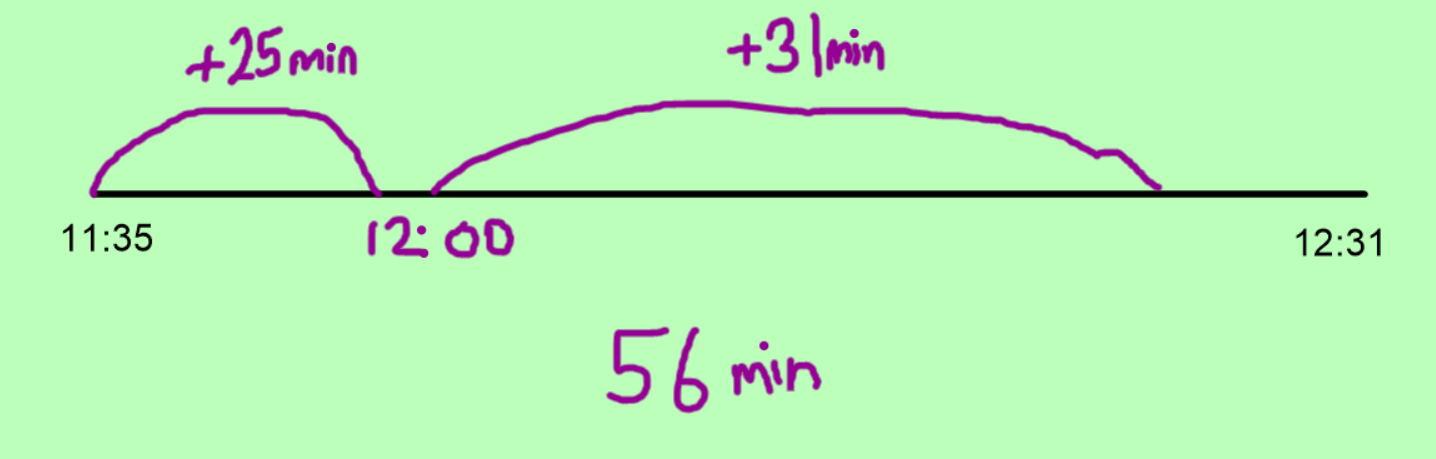
<https://www.loom.com/share/bc93356c9c9b43d8bd2f96e01e599677>

We draw a number line and start at 11:35. We then add on minutes until we get to the nest hour.

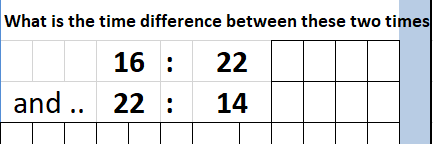
11:35 + 25 min would make 12:00

We then count on more minutes until 12:31 so we need 31 more minutes.

25 mins + 31 mins = 56 mins altogether.



Example 2



See loom video for an explanation:

<https://www.loom.com/share/25e76cb732dc4eedb7fc50c85c6373c6>

Draw a number line again. Start at 16:22 (which means 4:22 in the afternoon) and count how many minutes until the next hour.

16:22 + 38mins = 17:00

Then we need to count how many more hours until 22:00.

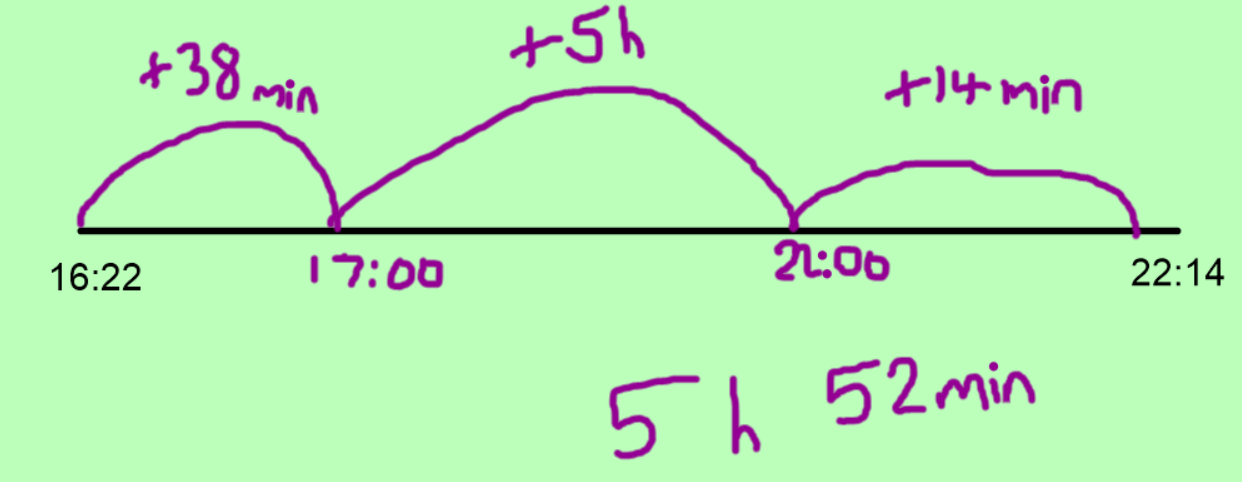
17:00 + 5 hours = 22:00

Then we need more minutes to get to 22:14.

22:00 + 14min = 22:14.

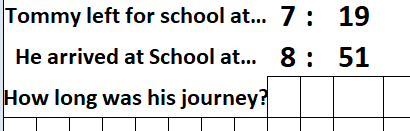
Add up the hours and minutes that we added on.

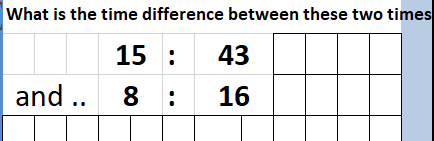
38 mins + 14 mins + 5 hours = 5 h 52 min



**Your Turn – Have a go at these time questions**

1. Charlotte catches the bus for school at 07:47 and arrives at 08:25. How long did the journey take?
2. A train leaves Plymouth at 09:45 and arrives at London at 13:40. How long does the journey take?
3. A plane took off from Plymouth Airport at 11:47 and landed at London Gatwick at 13:32. How long was the flight in hours and minutes?



1. 
2. 

James got the 09:40 train from Birmingham New Street and arrived in Reading at 11:30. How long was the journey?