

These function machines convert from one time into another.

This machine converts
hours → $\boxed{\times 60}$ → minutes

a) Complete these function machines to show what they do.

hours → $\boxed{\times 60}$ → $\boxed{\times 60}$ → _____

days → $\boxed{\times 24}$ → $\boxed{\times 60}$ → _____

days → $\boxed{\div 7}$ → _____

b) Draw a function machine to show how you would find the number of minutes in a leap year.

flect

cribe how you would convert 30 months into years and months.

Timetables

Look carefully at this coach timetable.

Stop	Coach A	Coach B	Coach C	Coach D	Coach E	Coach F
Birmingham Bus Station	05:45	07:30	09:20	11:15	12:50	14:35
Gilbertstone	06:05	07:50	09:40	11:35	13:10	14:55
Birmingham Airport	06:15	08:00	09:50	11:45	13:20	15:05
Coventry Bus Station	06:40	08:25	10:15	12:10	13:45	15:30
Northampton Bus Station	07:40	09:25	11:15	13:10	14:45	16:30
Luton Airport	08:45	10:30	12:20	14:15	15:50	17:35
Hertford North Station	09:30	11:15	13:05	15:00	16:35	18:20
Stansted Airport	10:20	12:05	13:55	15:50	17:25	19:10

a) Complete the sentences.

There are rows in the timetable. Each row shows a different _____.

There are columns. Each column shows a different _____.

The times in the timetable are hour times.

b) What time does the coach that leaves

Gilbertstone at five minutes past 6 arrive at
Luton Airport?

It arrives at : .

c) What time did the ten minutes to 4 arrival at

Luton Airport leave Birmingham Bus Station?

It left at : .

d) Complete the sentence.

At : Coach D arrives at Luton Airport.

Its next stop is _____.

It takes minutes to get there and it arrives at : .

This is part of a railway timetable.

Grantham	06:31	07:23	08:16	09:32	11:27	12:25
Rauceby	–	07:46	08:40	–	–	–
Sleaford	06:57	07:51	08:45	09:58	11:53	12:50
Boston	07:25	08:18	09:12	10:26	12:19	13:15
Thorpe Culvert	07:47	–	–	10:48	–	–
Wainfleet	07:51	08:43	09:36	10:52	12:44	13:40
Havenhouse	07:55	–	–	10:56	–	–
Skegness	08:05	08:56	09:49	11:06	12:58	13:54

Olivia arrives at Boston at 10 o'clock and catches the next train to Skegness. How long is she on the train for?

he is on the train for minutes.

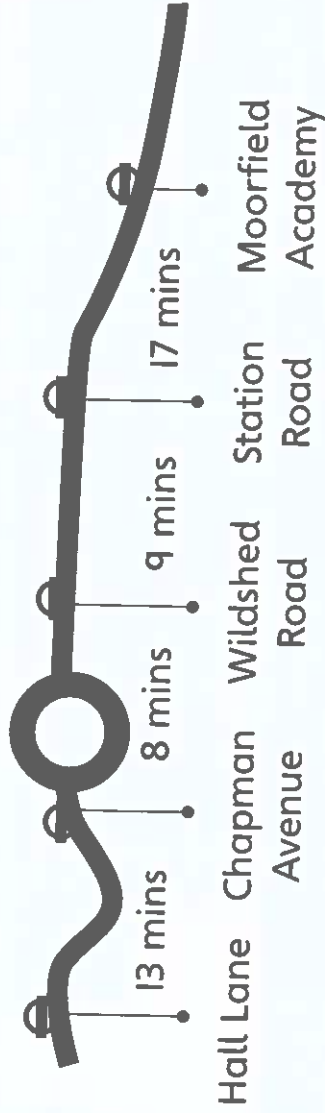
It is 09:33. Mo is at Grantham and has just missed the train! How long will he wait for the next train to Skegness?

he will wait hours and minutes.

A train leaves Grantham at quarter past 1 in the afternoon. It makes the same stops as the 06:31 train and takes the same time to travel between stops. Complete the final column of the timetable to show this train.

3

A school bus makes this journey from Hall Lane to Moorfield Academy.



Complete the timetable to include:

- a bus that leaves Hall Lane at twenty minutes to 8 in the morning
- a bus that arrives at Moorfield Academy at twenty-five minutes to 4 in the afternoon.

	Bus 1	Bus 2
Hall Lane		
Chapman Avenue		
Wildshed Road		
Station Road		
Moorfield Academy		

I am going to have to work back in time for one of these buses!



Reflect

Why do you think timetables are written using 24-hour clock times? Think about the mistakes that could happen if they were not.