

4.11.2021

LO: To read and interpret timetables.

Timetables are a specific table showing time data. They are used in everyday life to help us know when something is going to happen. For example school timetables tell us what time of day we have break, lunch and our different subject lessons, swimming pool timetables tell us which sessions are on for particular age groups, train and bus timetables tell us when to expect transport to arrive and depart specific areas.

### Recap Time

There are  seconds in a minute.

There are  minutes in an hour.

There are  hours in a day.

Digital clocks  
show the  
**hour: minute**

e.g. 10:45  
45 minutes  
past the hour of  
10.

12-hour time	24-hour time
12 a.m. (midnight)	00:00
1 a.m.	01:00
2 a.m.	02:00
3 a.m.	03:00
4 a.m.	04:00
5 a.m.	05:00
6 a.m.	06:00
7 a.m.	07:00
8 a.m.	08:00
9 a.m.	09:00
10 a.m.	10:00
11 a.m.	11:00
12 p.m. (noon)	12:00
1 p.m.	13:00
2 p.m.	14:00
3 p.m.	15:00
4 p.m.	16:00
5 p.m.	17:00
6 p.m.	18:00
7 p.m.	19:00
8 p.m.	20:00
9 p.m.	21:00
10 p.m.	22:00
11 p.m.	23:00

*+ 12 hours*

Look at this bus timetable and answer the questions below.

Bus Timetable				
New York Station	06:37	09:20	12:00	18:45
JFK Airport	06:57	09:40	12:20	19:05
Manhattan	07:15	09:58	12:38	19:23
Brooklyn	07:43	10:26	13:06	19:51

How long will my journey take to Brooklyn if I catch the 06:37 bus from New York City Station?

How long will my journey take if I catch the bus from JFK airport to Brooklyn?

What bus should I take if I want to travel from New York station to Manhattan and arrive by 1:00pm.

Decide if the following statements are true or false, explaining your reasoning.

	9:15 - 10:00	10:00 - 10:45	Break (10:45 - 11:15)	11:15 - 12:30	Lunch (12:30 - 1:15)	1:15 - 2:15	2:15 - 3:15
<b>Mon</b>	English	PE		DT		Science	Maths
<b>Tue</b>	Maths	Music		English		PE	Computing
<b>Wed</b>	English	Science		History		Maths	Geography

At 13:50 on a Tuesday, I would be in a science lesson.

There is the same amount of time spent in maths as there is English.

~~There are two science lessons totaling 2 hours.~~  
There is more time spent on history, geography and computing combined.

Look at this bus timetable and answer the questions below.

Bus 2 Timetable										
Station	06:00	07:00	08:00	09:00	10:00	12:00		15:00	16:00	17:00
Theatre	06:43	07:43	08:43	09:43	10:43	12:43			16:43	17:43
Museum	07:20	08:20	09:20	10:20	11:20	13:20	15:20			18:20
Hospital	07:50	08:50	09:50	10:50	11:50	13:50	15:50	16:50		
Supermarket	08:37	09:37	10:37	11:37	12:37	14:37	16:37	17:37	18:37	

What is the last bus from the Museum to the supermarket?

How long will it take to travel from the Station to the Hospital?

What is the earliest bus from the Theatre to the Museum?

"I can get a bus to the Museum from the Station at 15:00." True or false?

"The bus from the Theatre to the Hospital takes 53 minutes." True or False?

# Main Task

28.10.2021

**1.C: To read and interpret timetables**

Complete the table gaps by answering the answer the questions below.

Destination	Journey A	Journey B	Journey C
London	10:20	11:30	16:40
Derby	12:20		18:00
Sheffield	12:40	13:10	18:30
York	13:20	13:55	19:15
Newcastle	14:25	14:40	
Duration			3 hours

- Journey B takes 1 hour to get from London to Derby. What time do you arrive in Derby?
- Journey C takes a total of 3 hours. What time does it arrive in Newcastle?
- How long does journey A take?
- You need to be at York for 13:30. What is the best journey to take?
- You arrive at Sheffield train station at 18:10. How long do you have to wait for the next train to Newcastle?
- How many stations does the 11:30 train stop at before it reaches York?
- What time would I have to leave London to reach Newcastle for 14:40?
- What time would I have to leave York to reach Newcastle for 14:25?
- What is the duration of journey A?
- What is the duration of journey B?
- Which journey is the fastest? Prove it.
- Which journey is the slowest? Prove it.

**1.D: To read and interpret timetables**

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Station	Bus 7 Timetable									
	06:00	07:00	08:00	09:00	10:00	12:00		15:00	16:00	17:00
Theatre	06:43	07:43	08:43	09:43	10:43	12:43			16:43	17:43
Museum	07:20	08:20	09:20	10:20	11:20	13:20	15:20			18:20
Hospital	07:50	08:50	09:50	10:50	11:50	13:50	15:50	16:50		
Supermarket	08:37	09:37	10:37	11:37	12:37	14:37	16:37	17:37	18:37	

- What train from the station will arrive at the hospital at 07:50? \_\_\_\_\_
- What train from the hospital will arrive at the supermarket at 16:37? \_\_\_\_\_
- What train from the Museum will arrive at the hospital at 15:50? \_\_\_\_\_
- Will you be able to travel from the museum to reach the hospital for 16:50? Explain why.
- Read the statements and decide if they are **true or false**, explaining your reasoning.
- A bus leaves the station every hour.
  - It takes exactly two hours and thirty seven minutes to travel from the station to the supermarket.
  - If you take the correct bus from the theatre to the hospital, you can arrive at the hospital at exactly 3pm.
  - The journey time from the museum to the supermarket is shorter than the journey from the theatre to the hospital.



LO: To read and interpret timetables 28.10.2021

Jessica wants to watch the following TV programmes, Cheese Please, What's the Q, Amusement, Budget Baker, Safar, Dance and Decide. Will Jessica be able to watch all of the shows she has chosen?

Hour/Day	Hour/Day 11	Hour/Day 12	Hour/Day 13	Hour/Day 14	Hour/Day 15
8pm	News	8pm	What's the Q	8pm	Tab the Tab
10:30pm	Weather	8:30pm	News	10:30pm	Question
10:45pm	Deep Blue	10:45pm	Weather	8pm	What's the Q?
8pm	Paranormal	10:45pm	Deep Blue	10:30pm	Amusement
7pm	Safar	7pm	Paranormal	10:30pm	Budget Baker
10:15pm	Animal World	8pm	Safar	8pm	Guess the Noise
10:15pm	Horrible	10:15pm	Animal World	8pm	Horrible

It is 18:45. How long is it until, "Guess the Noise." is on?

Y7CM	1	2	3	4	5	6
Monday	09:15 - 09:55	09:55 - 10:45	10:55 - 11:55	12:55 - 13:45	14:45 - 14:55	14:55 - 15:25
Tuesday	Literacy	English	Maths	ICT	PSHCE	Geography
Wednesday	English	Art	French	Science	ICT	PE
Thursday	Literacy	G.T	Art	Science	ICT	Science
Friday	PE	Maths	R.E.	English	History	PSHCE
Friday	Literacy	Maths	Art	Science		PE

**True or False?**

Rose has 130 minutes of literacy in a week \_\_\_\_\_

Rose has 2 hours and 20 minutes of PE in a week \_\_\_\_\_

Rose does art for the same length of time as maths each week \_\_\_\_\_

Rose does art for the same length of time as english each week \_\_\_\_\_

Bus Timetable					
Halifax	06:05	06:35	07:10	07:45	08:15
Shelf	06:15	06:45	07:15	07:50	08:20
Shelf Village	06:15	06:45	07:25	08:00	08:32
Woodside	06:21	06:52	07:28		
Odsal	06:28	06:58	07:33	08:15	08:45
Bradford	06:40	07:10	07:48	08:30	09:00

On the 06:35 bus, how long does it take to get from Shelf Village to Bradford?

Can you travel to Woodside on the 07:43 bus from Halifax?

Which journey takes the longest time between Shelf Village and Bradford?

The 08:15 bus is running 12 minutes late. What time does it arrive at Odsal?

**Next Step:**

1) Use the statements below in order to create your own train timetable, using the 24-hour clock.

Train Timetable					
Twinkl Town					
Zoo					
Twinkl Towers					
Stadium					
City Centre					
Airport					

The train always leaves Twinkl Town at ten minutes to the hour.

The journey time to Twinkl Towers from the Twinkl Town station is between 30 and 35 minutes.

The train always leaves the zoo between five and quarter past the hour.

The stadium is reached 48 minutes before the city centre station.

The journey time between the city centre station and the airport is between 2 hours 45 minutes and 3 hours.

2) Now create your own timetable questions based on the timetable you have created.

