Warm-Up Challenge

Flashback 4

1) Multiply 374 kg by 6

2) What is the area of these two shapes?

3) Write down 2 factors of 20

4) Work out 280 + 849

White Rose Maths

Learning Objective:
To be able to read, complete and interpret information in timetables.

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I've decided to treat myself to a trip on the Orient Express. Here is my itinerary for the outward journey:

London Victoria	**10:45 depart**	**Day 1**
Paris Gare de L'Est	**21:17 arrive**	**Day 1**
Paris Gare de L'Est	**21:44 depart**	**Day 1**
Innsbruck	**11:42 arrive**	**Day 2**
Verona Porta Nuova	**16:03 arrive**	**Day 2**
Venice Santa Lucia	**17:56 arrive**	**Day 2**

Can you read all these times? What do you notice about how they are written?

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These times are written in a 24-hour digital format. 24-hour clocks do not count two sets of 12 like analogue clocks do. Instead they count each of the 24 hours in a day.

Once the 12 hours of the morning have passed, 24-hour clocks continue to count the 13th hour...

12:59	→	13:00	13:59	→	14:00
Twelve fifty-nine		One o'clock	One fifty-nine		Two o'clock

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An easy way to work out 24-hour time is to add the afternoon hour to 12:

1 p.m.	12 + 1 = 13	13:00
2 p.m.	12 + 2 = 14	14:00
7 p.m.	12 + 7 = 19	19:00
9 p.m.	12 + 9 = 21	21:00

24-hour time is particularly useful for train timetables because it makes it clear whether the time is in the morning or the afternoon.

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It arrives in Paris at seventeen minutes past nine in the evening. Did you get that right?

London Victoria	10:45 depart	Day 1
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What time does the Orient Express arrive in Venice?

London Victoria	10:45 depart	Day 1
Paris Gare de L'Est	21:17 arrive	Day 1
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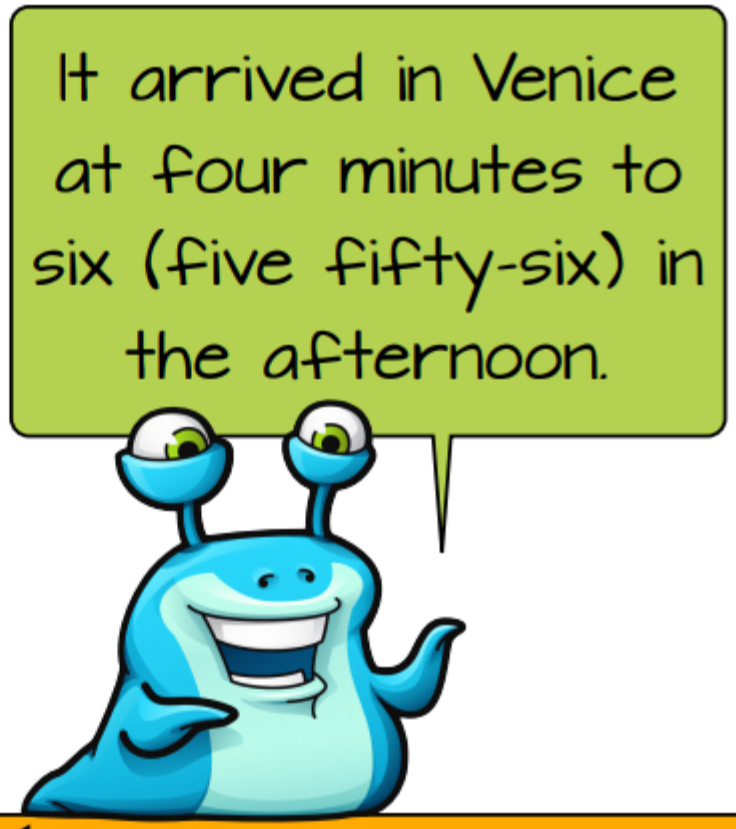

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On Day 1, how long was the Orient Express waiting at the Gare de l'Est station for?

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London Victoria	**10:45 depart**	**Day 1**

It arrived at 21:17

It left again at 21:44:

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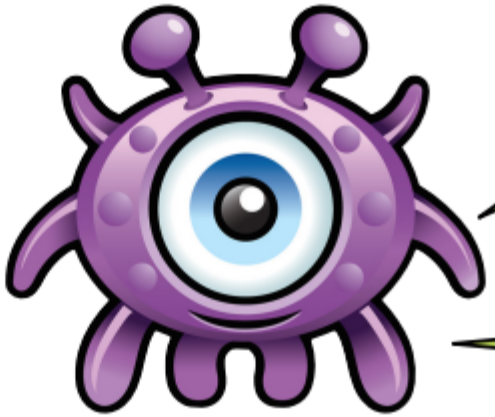
Venice Santa Lucia	17:56 arrive	Day 2

It arrived at 21:17

It left again at 21:44:



This means it was at the station for 27 minutes.

Did you get that right? How did you work out the answer?

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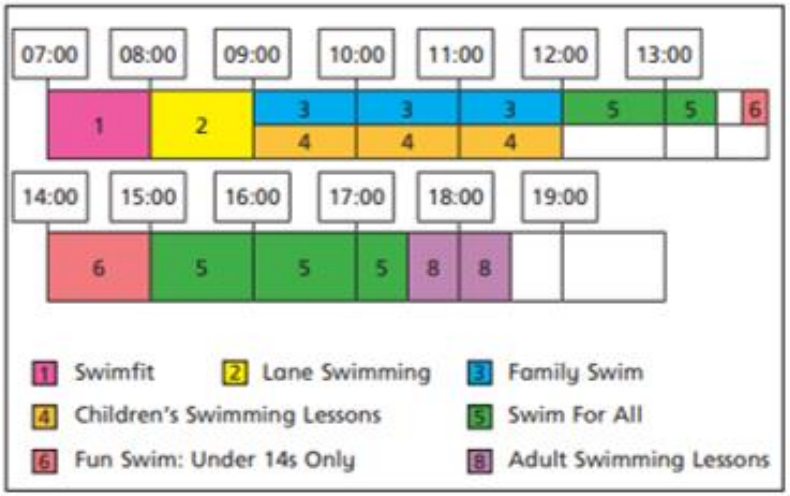
Independent Activity: Turn to pages 3 & 4 in your new work pack or use a plain piece of paper to answer the questions.

1 Here is the Saturday timetable for the main pool at a local leisure centre.



a) Is this true or false?

The Family Swim session starts at 9 o'clock in the morning.

b) How long does the Swimfit session last?

c) During the day how much time is allocated to Swim for All sessions?

d) Why is the time between 9:00 and 12:00 divided into two?

Talk about it with a partner.

2 Draw a timetable for today's lessons ** Lessons / Work at home!

You should include breaks and lunchtime.

Add another row to your timetable to show what lessons you have tomorrow.

What things stay the same and what things change every day?

3 Here is part of a bus timetable showing the journey from the bus station to the train station.

	1st bus	2nd bus
Bus station	10:30	12:15
High Street	10:42	12:27
Green Lane	10:45	12:30
School	10:56	
Four Lane End	11:07	
Library	11:12	
Train station	11:25	

It takes the 2nd bus the same time to travel between each stop.

Complete the timetable.

4 This is the train timetable from Leeds to London.

Leeds	12:15	12:45	13:15	13:45	14:15
Wakefield	12:28	12:58	13:28	13:58	14:28
Doncaster	12:47	13:19	13:47	14:19	14:47
Grantham	13:18	—	14:18	—	15:18
Peterborough	—	14:10	—	15:10	—
Stevenage	14:04	—	15:04	—	16:04
London	14:31	15:01	15:31	16:01	16:31

a) What time does the 12:45 from Leeds arrive in London?

b) How long does the 13:58 train from Wakefield take to get to London?

c) At which stations does the 14:15 train stop?

d) How long does it take to get from Grantham to Stevenage?

e) If you arrive in Grantham at 13:30, how long will you need to wait before the next train to London?

Independent Activity: Turn to pages 3 & 4 in your new work pack or use a plain piece of paper to answer the questions.

5 Here is a local bus timetable.

High Street	09:15	09:35	09:55	10:15
Library	09:30	09:50	10:10	10:30
Willow Park	09:47	10:07	10:27	10:47
Bank Road	10:05	10:25	10:45	11:05
Shop-A-Lot Centre	10:20	10:40	11:00	11:20

a) Dexter misses the 09:15 bus by 3 minutes.

He needs to be at Bank Road by 10:30

Is he still able to make it?

Explain your answer.

b) Annie catches the 10:10 bus.

What time does she arrive at the Shop-A-Lot Centre?

c) Teddy says he never has to wait more than 20 minutes for a bus.

Is this true?

Explain your answer.