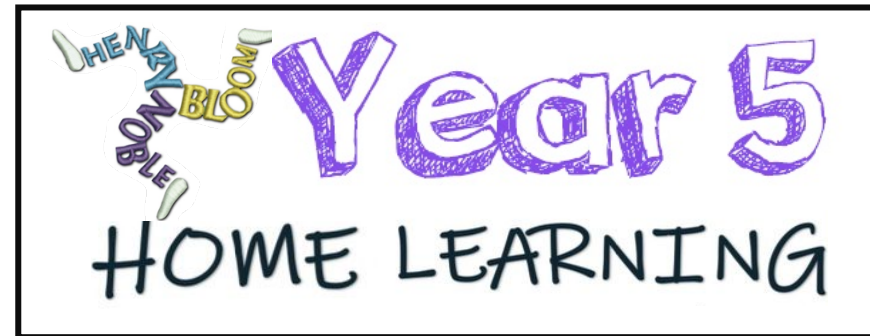




Maths: Week Three

Timetables and time

Including more word problems
(Theme: *Great Journeys*)



Maths warm ups

True or false?

'Double 11 is more than half of 46'

Quickfire times tables!

$5 \times 3 =$ $9 \times 2 =$
 $8 \times 7 =$ $2 \times 12 =$
 $4 \times 6 =$ $0 \times 6 =$

Which could be the odd one out? Why?

23

25

15

20

Properties of numbers

Time: a guide

12-hour clock	24-hour clock	Written
12:00 am	00:00	Midnight
1:00 am	01:00	1 o'clock in the morning
2:00 am	02:00	2 o'clock in the morning
3:00 am	03:00	3 o'clock in the morning
4:00 am	04:00	4 o'clock in the morning
5:00 am	05:00	5 o'clock in the morning
6:00 am	06:00	6 o'clock in the morning
7:00 am	07:00	7 o'clock in the morning
8:00 am	08:00	8 o'clock in the morning
9:00 am	09:00	9 o'clock in the morning
10:00 am	10:00	10 o'clock in the morning
11:00 am	11:00	11 o'clock in the morning

A day has 24 hours. A clock has 12 hours. So each time will happen twice in a day: for example 3 o'clock in the morning (**3am**) and 3 o'clock in the afternoon (**3pm**).

12-hour clock	24-hour clock	Written
12:00 pm	12:00	12 noon
1:00 pm	13:00	1 o'clock in the afternoon
2:00 pm	14:00	2 o'clock in the afternoon
3:00 pm	15:00	3 o'clock in the afternoon
4:00 pm	16:00	4 o'clock in the afternoon
5:00 pm	17:00	5 o'clock in the afternoon
6:00 pm	18:00	6 o'clock in the evening
7:00 pm	19:00	7 o'clock in the evening
8:00 pm	20:00	8 o'clock in the evening
9:00 pm	21:00	9 o'clock in the evening
10:00 pm	22:00	10 o'clock in the evening
11:00 pm	23:00	11 o'clock in the evening

a.m. = before noon
p.m. = after noon

Use this guide as you answer the questions to check the 24-hour clock times whenever you need to!

E.g.
20:00 = 8pm.

Timetables: a recap

Here is an example timetable of a bus route in London. It shows the times of buses between Ealing and Notting Hill.

Ealing	01:00	01:15	02:00	03:10
Acton	01:15	-----	-----	03:20
White City	-----	-----	-----	03:35
Holland Park	01:45	01:35	-----	03:45
Notting Hill	02:00	-----	02:45	03:50

For every bus on this timetable, **Ealing is the first stop**, and **Notting Hill is the last stop**.

The numbers in the boxes are all times that the bus should be there.

So the **first bus** on this timetable leaves Ealing at 01:00 and arrives at Notting Hill at 02:00 (one hour later).

If there is no number in the box, then the bus doesn't stop there. We can see the 01:00 bus from Ealing doesn't stop at White City.

In fact, we can see that the only bus that **does** stop at White City is the last one, the 03:10 from Ealing. That bus stops at White City at 03:35.

The Great Snaefell Mountain Railway

The Mountain Railway travels to the summit of Snaefell, leaving from Laxey and only stops at the Bungalow.

If you got the first tram (10:00) from Laxey and the last tram (14:00) back from the summit, how long would you have at the summit?

If you wanted to spend exactly an hour and a half at the summit, which trams should you catch?



Laxey	10:00	11:15	12:00	12:45
Bungalow	10:20	11:35	12:20	13:05
Summit	10:30	11:45	12:30	13:15
Summit	10:50	12:05	12:55	14:00
Bungalow	11:00	12:15	13:05	14:10
Laxey	11:20	12:35	13:25	14:30

The Coast Road to Ramsey!

Alice thinks there is two mistakes on the Bus Vannin timetable between Douglas and Ramsey. Is she right?



Douglas	06:50	07:00	07:20	07:40
Baldrine	07:25	07:35	07:55	07:15
Laxey	07:50	08:00	08:20	08:40
Dhoon Glen	08:10	08:20	09:12	09:00
Ramsey	08:42	08:52	09:12	09:32

Douglas to Port Erin Steam Railway

Copy out and complete the IoM steam train timetable:



Extension:

Add the times for 'Train D', which leaves Douglas at 4.10pm. It travels twice as fast as Train A. However there is a 35min delay in Colby. What time does it arrive in Port Erin?

Station	Train A	Train B	Train C
Douglas	6:10		
Colby		10:35	
Port Erin			12:15

- Train A takes 20 minutes to travel to each station.
- Train B takes 15 minutes to travel to each station.
- Train C takes 25 minutes to travel to each station.

Douglas Prom Horse Trams

How long does the tram take from the Sea Terminal to Strathallan?

Jim wants to meet someone at Strathallan at 10:30am. Which tram from the Sea Terminal should he catch?

Abby is near Strathallan and Steph is near the Sea Terminal. They have arranged to meet at the Palace Hotel at 10am. Which trams should they catch?

Sea Terminal	09:10	09:50	10:30
Palace Hotel	09:17	09:57	10:37
Strathallan	09:32	10:12	10:52
Strathallan	09:45	10:25	11:05
Palace Hotel	10:00	10:40	11:20
Sea Terminal	10:07	10:47	11:27



Time: Mild



1. Ellie takes the tram to Laxey. She sets off at 09:25 in the morning and arrives at 09:47. How long was her journey?



2. Brendan goes on a walk on Douglas Prom. When he sets off, his watch tells him that it is 10:30. His walk is 1 hours 10 minutes long. At what time does he arrive?



3. Cedric's family drive to Bride. Their journey takes 41 minutes. They arrive at 11:55. What time did they set off?



4. On holiday in Ireland, Amy and Alexa cycle to Killarney. They set off at 14:27 and arrive at 14:58. How long was the journey?



5. Blake and Rio go snorkelling at Port Soderick. They get in the water at 12:20. They are out snorkelling for 43 minutes. At what time do they get back on the beach again?

Time: Spicy



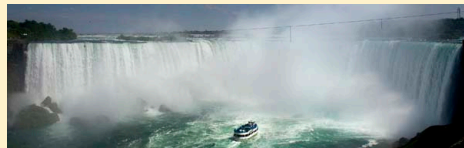
1. Millie and Graihagh go on a walk to climb Snafell from Laxey beach. The climb takes them 3 hours and 33 minutes. They arrive at the top of the mountain at 14:22. At what time did they set off from the beach?



2. Caitlin and Bailee walk the old railway trail. When they set off, Caitlin's watch says that it is 10:24. The walk is 2 hours 28 minutes long. However, they realise the watch is 11 minutes fast. At what time did they really arrive?



3. Ethan and Ethan go on a cycle around Archallagan which lasts 2 and three quarters hours. They finish their ride at 20:31. At what time did they start it?



4. Jack and Damien are bored one day and decide to tightrope walk across Niagara Falls. They set off at 09:21. It would normally take 1 hour 47 minutes, but they stop for a picnic for 27 minutes! At what time do they arrive at the other end of the tightrope?

Time : Extra Spicy

1. Annabel drives to Cardiff, taking 2 hours and 41 minutes. She arrives at 11:25. What time did she set off? Her friend Sue set off to Cardiff 15 minutes after Annabel. At what time did Sue set off?



2. Cameron cycles to Kirk Michael. He sets off at 14:27 and arrives at 17:09. However, he had to stop on the way for 22 minutes to repair a puncture. How long would his journey have been if not for the puncture?



3. CeCe goes on a horse ride along Glen Willyn beach. She sets off at 14:36 and her ride goes on for 1 hour and 36 minutes. If the sun sets at 17:09, how long has she got to get home before the sun sets?



4. Amber goes on a walk along the Raad Ny Foillan which lasts $2\frac{3}{4}$ hours. She completes her walk at 20:31. If it took her 39 minutes to get ready before the walk, at what time did she start getting ready?