



Aberdare Community School  
Mathematics Department

WJEC GCSE  
**Foundation – Non Calculator**  
Number

# Timetables

Name: .....

Set: .....

Date: .....

Teacher: .....

17. Mr. Roberts is travelling to Hong Kong on business.

(a) There is a time difference between the UK and Hong Kong.  
When the time is 6 am in the UK the time is 2 pm on the same day in Hong Kong.

(i) When it is 10 am in the UK what time is it in Hong Kong?

.....

(ii) Mrs. Roberts stays in the UK and has given her husband her time schedule, shown below.

<i>6 am</i>	<i>Get up, walk dog, breakfast</i>
<i>6.30 am</i>	<i>Leave home to go to work</i>
<i>7.30 am</i>	<i>Arrive at work</i>
<i>11.30 am</i>	<i>Finish work, set off to go home</i>
<i>12.30 pm</i>	<i>Arrive home for lunch</i>
<i>2 pm</i>	<i>Leave home for daily exercise class</i>
<i>4 pm</i>	<i>Home</i>
<i>6 pm</i>	<i>Go out to evening job</i>
<i>9 pm</i>	<i>Home</i>
<i>10 pm</i>	<i>Go to bed (don't disturb)</i>

Mr. Roberts will be in meetings most of the day in Hong Kong from 8 am until 11 am, then from 12 noon to 6 pm.

He plans to telephone his wife at a convenient time during the day.

During which time period should Mr. Roberts telephone his wife?

Give your answer in UK and Hong Kong times.

.....  
.....  
.....  
.....  
.....  
.....

[4]

- (b) Mr. Roberts is going to be in Hong Kong for 4 nights.  
He finds two suitable hotels on the internet.

Hotel Gelton 3*	Bed and breakfast £80 per night per person
-----------------	--

Hotel Bear 3*	Dinner, bed and breakfast £107 per night per person
*****Special Offer*****	
<b>Stay 3 nights and your fourth night is free!</b>	

Which hotel should Mr. Roberts choose? You must show your working and give a reason for your answer.

.....

.....

.....

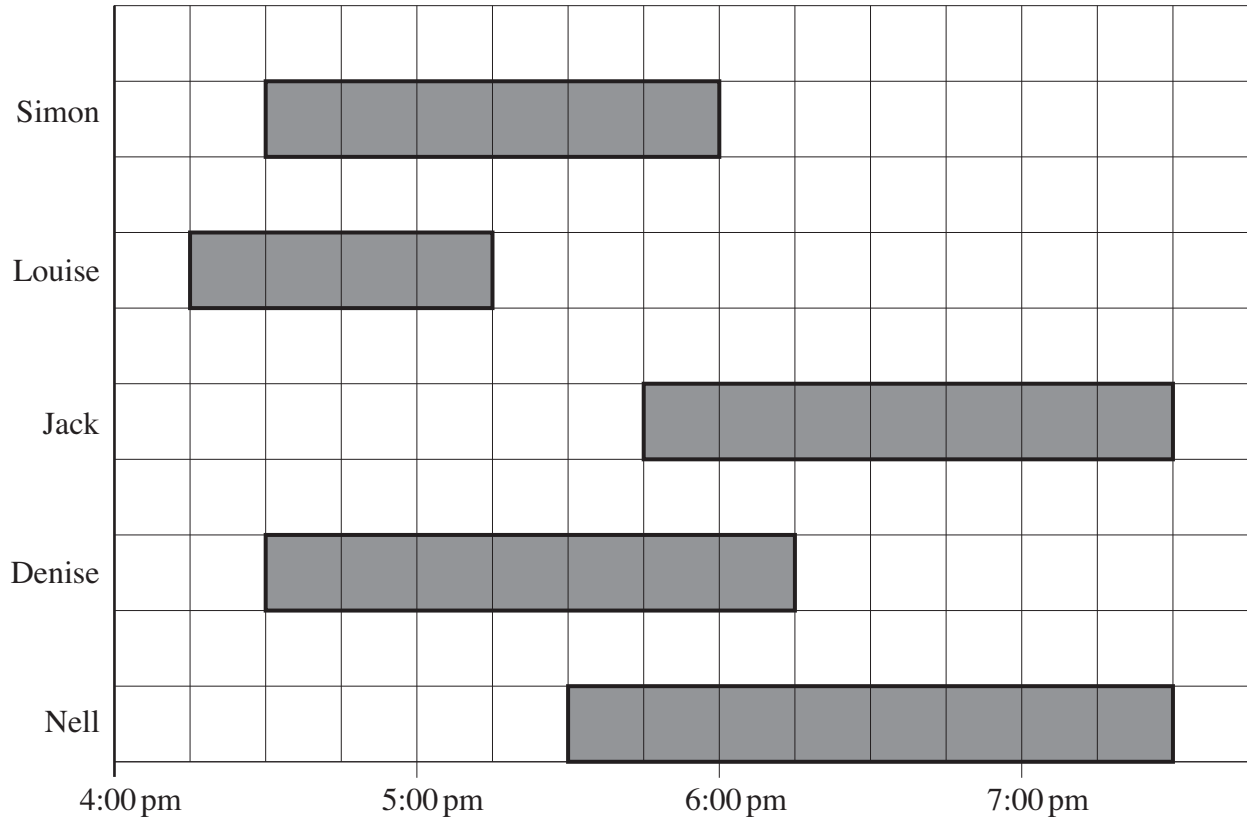
.....

.....

.....

[4]

5. The chart shows the times five friends spent at a gym.



(a) Who was the first person to arrive at the gym?

..... [1]

(b) For how long was Denise at the gym?

.....  
 ..... [2]

(c) Who stayed at the gym for the longest time?

..... [1]

(d) Between which times were four of the friends at the gym at the same time?

..... [1]

11. The following are parts of rail timetables between Swindon and Coventry and between Coventry and Durham.

<b>Swindon</b>		14:29	15:29	16:29	17:29	18:29
<b>Reading</b>	arrive	15:00	16:00	17:00	17:55	19:01
	depart	15:11	16:11	17:11	18:11	19:11
<b>Coventry</b>		16:22	17:23	18:22	19:22	20:25

<b>Coventry</b>		16:27	16:49	17:27	17:49	18:49
<b>Birmingham</b>	arrive	16:48	17:16	17:48	18:17	19:17
	depart	17:03	17:30	18:03	18:30	19:30
<b>Durham</b>		20:22	20:30	21:25	21:39	22:30

- (a) Denise catches the 15:29 train from Swindon to Coventry.  
How long does the journey take?

.....

.....

.....

.....

[2]

- (b) John arrives at Reading station at 14:55.  
He travels on the next train to Coventry for a meeting which, including the walk to and from the station, takes a total of 1 hour 20 minutes.  
He then catches the next train to Durham.  
When does he arrive at Durham?

.....

.....

.....

.....

.....

[4]



12. Below are parts of two train time-tables.

Swansea to Bristol Parkway

Swansea	10:28	10:55	11:28	11:55
Neath	10:39	11:05	11:39	12:05
Port Talbot	10:47	11:12	11:47	12:12
Bridgend	10:59	11:25	11:59	12:25
Cardiff	11:22	11:47	12:22	12:47
Newport	11:39	12:08	12:39	13:08
Bristol Parkway	11:59	12:30	12:59	13:30

Bristol Parkway to Sheffield

Bristol Parkway	11:40	12:40	13:40	14:40
Cheltenham	12:10	13:12	14:10	15:11
Birmingham	13:03	13:58	14:56	15:59
Derby	13:42	14:40	15:39	16:40
Sheffield	14:17	15:18	16:17	17:19

- (a) Sophie gets on the 10:55 from Swansea at Bridgend and gets off at Newport. How long should her journey take?

.....  
 ..... [2]

- (b) David lives in Port Talbot and needs to get to Birmingham by half past three in the afternoon.

- (i) What is the latest train he can catch from Port Talbot to do this?

..... [1]

- (ii) How long should he have to wait at Bristol Parkway?

..... [1]



- (iii) On the day he travelled, owing to signal problems, the Swansea trains were 10 minutes late arriving at Bristol Parkway and the trains to Sheffield were 15 minutes late leaving Bristol Parkway.  
Given that the trains kept to their normal speed, at what time did David arrive in Birmingham? Give a full explanation for your answer.

.....

.....

.....

.....

.....

[2]







9. Hamish is in London one Tuesday afternoon.  
He looks at the world clock shown below.

World clock		
London	New York	Sydney
13:38 Tuesday	08:38 Tuesday	21:38 Tuesday

- (a) Hamish has a plane to catch in 6 hours 34 minutes time.  
At what time does his plane leave, in New York time?

.....

.....

.....

.....

[2]

- (b) Hamish decides to make a telephone call to Sydney before he leaves.  
He makes the call at 17:05 in London.  
What time and day is this in Sydney?

.....

.....

.....

Time ..... Day .....

[3]

10.

10. The table shows typical ranges for fares and journey times for London taxis.

London Taxis		Tariff 1	Tariff 2	Tariff 3
Distance (up to)	Approximate journey time	Monday to Friday 06:00 to 20:00	Monday to Friday 20:00 to 22:00 Saturday and Sunday 06:00 to 22:00	Every night 22:00 to 06:00
1 mile	6 - 13 mins	£5.60 - £8.60	£5.60 - £8.80	£6.60 - £8.80
2 miles	10 - 20 mins	£8.40 - £13.40	£8.80 - £13.60	£10.20 - £14.40
4 miles	16 - 30 mins	£15 - £21	£16 - £22	£17 - £27
6 miles	28 - 40 mins	£23 - £28	£28 - £31	£28 - £32

Example:

A journey of 5 miles at midnight would cost between £28 and £32, depending on the length of time of the journey.

Use the table to answer the following questions.

- (a) Peter hires a taxi on a Thursday at 10:25 a.m. for a journey of 2 miles. What is the least amount he should be charged and what would be the earliest time he would get there? [2]

.....

Least amount charged ..... Earliest time .....







