Intermediate Numeracy Summer 2017 P2 Q1

> **Bus timetable from Orme Station to Outlet Village**
>
> Only 55 minutes from Orme Station direct to Outlet Village.
>
> Buses leave the station
> - every 12 minutes from 8 a.m. until 12 noon
> - every 24 minutes from 12 noon until 10 p.m.

(a)   At what time does the first bus after 09:00 leave Orme Station?
Circle your answer.   [1]

09:05   09:12   09:18   09:24   09:30

(b)   Gwil looks at the timetable shown above.
He decides to take the latest possible bus to be at Outlet Village by 15:00.

At what time will Gwil arrive at Outlet Village?
You must show all your working.   [2]

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Intermediate Maths Nov 2017 P2 Q2

(a)   What is the difference between the following times?

'07:30 on 1st November 2017'   and   '13:20 on 3rd November 2017'

Give your answer in days, hours and minutes.   [2]

(b)   Divide 16 hours 20 minutes by 5.

Give your answer in hours and minutes.   [2]

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Intermediate Numeracy Summer 2019 P2 Q3a

Rhys lives in St Asaph.
He wants to video call friends in Montreal, New Delhi and Sydney.

(a)   The table below shows times around the world when it is 12:30 in St Asaph.

City	Time	Day
St Asaph	12:30	Saturday
Montreal	07:30	Saturday
New Delhi	17:00	Saturday
Sydney	21:30	Saturday

(i)   When it is 23:30 on Saturday in St Asaph, what time and day is it in Montreal?
Circle your answer.   [1]

04:30, Sunday   07:30, Saturday   18:30, Saturday

02:30, Saturday   12:30, Saturday

(ii)   When it is 01:00 on Sunday in Sydney, what time and day is it in St Asaph?
Circle your answer.   [1]

16:00, Sunday   16:00, Saturday   10:00, Sunday

10:00, Saturday   06:00, Monday

Intermediate Numeracy Sam 2 P1 Q2

. Carys is planning a visit to Blaenau Ffestiniog tomorrow.
Carys lives in Rhyl and plans to travel by train.

She will need to travel by train from Rhyl to
Llandudno Junction, then change train to travel on to
Blaenau Ffestiniog.

Carys has collected the timetables she needs to plan her day out.

Going to Blaenau Ffestiniog:

Departs	From	To	Arrives	Duration
07:08	Rhyl	Llandudno Junction	07:28	20m
07:57	Rhyl	Llandudno Junction	08:16	19m
08:29	Rhyl	Llandudno Junction	08:51	22m
08:57	Rhyl	Llandudno Junction	09:16	19m
09:27	Rhyl	Llandudno Junction	09:43	16m
09:57	Rhyl	Llandudno Junction	10:16	19m

Departs	From	To	Arrives	Duration
07:39	Llandudno Junction	Blaenau Ffestiniog	08:42	1h 03m
10:28	Llandudno Junction	Blaenau Ffestiniog	11:30	1h 02m
13:30	Llandudno Junction	Blaenau Ffestiniog	14:32	1h 02m
16:33	Llandudno Junction	Blaenau Ffestiniog	17:35	1h 02m

Returning from Blaenau Ffestiniog:

Departs	From	To	Arrives	Duration
14:57	Blaenau Ffestiniog	Llandudno Junction	15:57	1h 00m
17:37	Blaenau Ffestiniog	Llandudno Junction	18:35	58m
20:23	Blaenau Ffestiniog	Llandudno Junction	21:21	58m

Departs	From	To	Arrives	Duration
16:18	Llandudno Junction	Rhyl	16:34	16m
16:25	Llandudno Junction	Rhyl	16:43	18m
17:15	Llandudno Junction	Rhyl	17:33	18m
17:37	Llandudno Junction	Rhyl	17:53	16m
18:39	Llandudno Junction	Rhyl	18:55	16m
18:53	Llandudno Junction	Rhyl	19:12	19m
19:26	Llandudno Junction	Rhyl	19:42	16m
19:51	Llandudno Junction	Rhyl	20:10	19m

(a) If Carys leaves Rhyl after 9 a.m., what is the earliest possible time at which she
could arrive in Blaenau Ffestiniog? Circle your answer.

[1]

10:28   11:30   13:30   14:32   14:57

(b)   Carys decides to leave Rhyl after 9 a.m.
She would like to spend the least time possible changing trains on her way to
Blaenau Ffestiniog, so she selects the most suitable train.

How long will she have to wait for her connecting train to Blaenau Ffestiniog
at Llandudno Junction station?
Circle your answer.   [1]

12 minutes   16 minutes   19 minutes   45 minutes   1h 2 minutes

(c)(i) You will be assessed on the quality of your organisation, communication and
accuracy in writing in this part of the question.

Carys plans to be at the railway station in Blaenau Ffestiniog by 5 p.m. to
begin her return journey home.
How much time, in hours and minutes, will it take to travel back (from the time
she leaves Blaenau Ffestiniog to the time she arrives back at Rhyl station)?
                                                                        [4 + OCW 2]

Intermediate Numeracy Sam 1 P2 Q3
Siôn has gone to a travel agent to book a 7-day holiday at a Spanish resort for
July 2016.

He has the following two **definite** requirements:
  • He can only be away on holiday between 2 July 2016 and 23 July 2016.
  • His flight must land in Malaga.

He would like to have as many as possible of the following four **preferred**
conditions met:
  • To fly from Cardiff Wales Airport.
  • Depart on a Monday.
  • Departure time to be before 10:00 a.m.
  • The hotel to have a 3-star (***) rating.

Using the following information, choose the best two options from the eight
holiday packages listed (Package A to Package H).
His definite requirements **must** be met and **as many as possible** of his preferred
conditions should also be met.   [4]

July 2016						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Hotel	Star Rating
Castilla	* * *
Nou Sol	* * *
Costa Park	* *
Fiesta	* *

Package	Flights		Depart		Return		Hotel
	From	To	Date	Time	Date	Time	
A	Manchester	Malaga	11/7/16	14:00	18/7/16	23:00	Castilla
B	Manchester	Malaga	4/7/16	09:30	11/7/16	15:00	Nou Sol
C	Manchester	Malaga	5/7/16	06:30	12/7/16	15:00	Costa Park
D	Manchester	Seville	4/7/16	08:00	11/7/16	12:30	Nou Sol
E	Cardiff	Malaga	18/7/16	07:30	25/7/16	14:00	Castilla
F	Cardiff	Malaga	6/7/16	10:05	13/7/16	14:00	Fiesta
G	Cardiff	Malaga	11/7/16	17:00	18/7/16	22:00	Castilla
H	Cardiff	Malaga	9/7/16	09:45	16/7/13	05:30	Costa Park

Allowing for as many of his preferred conditions as possible, the two best options for Siôn are:
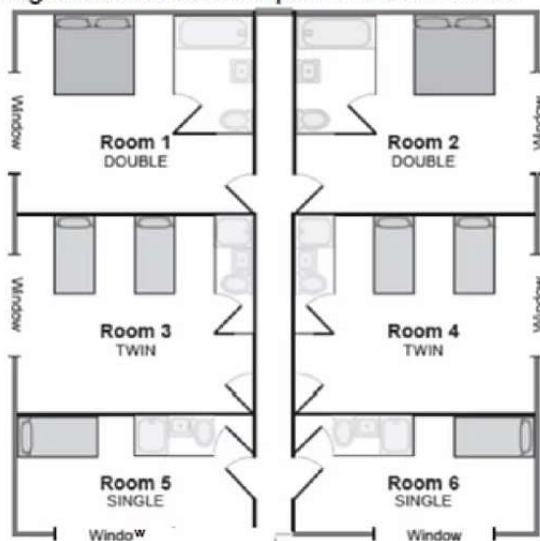
Package .... and Package ....

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Intermediate Numeracy Sam 2 P1 Q3

3. *Gwesty Traeth* is a guest house and has six bedrooms.

Two of the rooms are described as *Double* (they have a double bed).
Two of the rooms are described as *Twin* (they have two single beds).
Two of the rooms are described as *Single* (they have one single bed).

The diagram below shows a plan of these rooms.

The people listed below have contacted *Gwesty Traeth* requesting rooms for dates in July 2016.

- Sasha and Mia want to share a twin room for the 6th and 7th.
- Mr & Mrs Jones want a double room for the 5th.
- Flavia wants a single room for the 5th and 6th.
- Mr & Mrs Evans want a double room for themselves and a twin room for their sons, Morys and Ifan, to share for the three nights 5th, 6th and 7th.
- Their daughter Heledd will join them on the 6th and 7th, and she requires a single room.
- Mr & Mrs Igorson want a double room for the 6th and 7th.

Use the table below to show who is given which room for each of the dates from the 5th July until the 7th July.

No-one should have to change rooms during their stay.

[4]

	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6
5th July						
6th July						
7th July						

Intermediate Numeracy Nov 2017 P2 Q4

(a) What is 3 hours 12 minutes in hours?
Circle your answer. [1]

    3·102 hours   3·12 hours   3·15 hours   3·2 hours   3·25 hours

(b) The first 40 miles of a journey took 1 hour 15 minutes.
The remaining 80 miles were completed in 2 hours 15 minutes.
Calculate the average speed, in mph, of the 120-mile journey. [3]

Intermediate Numeracy Summer 2018 P1 Q4

(a) The towns of Aberglen, Bargwyn, Caerlow and Derwen are on Bus Route 3.
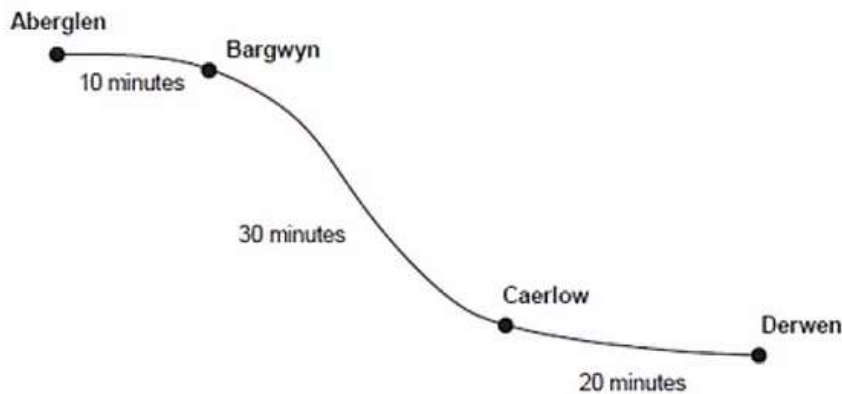The times buses take to travel between each of the towns are shown on the diagram below.

Diagram not drawn to scale

Buses start at Aberglen.
All these buses travel to Derwen, stopping at Bargwyn and Caerlow.

Here is the bus timetable.

Departing from:	Times
Aberglen	First bus leaves at 09:00, then every 13 minutes after this time.

(i)   At what time does the 09:13 bus from Aberglen arrive at Derwen?
Circle your answer.   [1]

09:23   09:33   09:43   10:53   10:13

(ii)   Dilys arrives at the bus stop in Bargwyn at 09:30.
At what time is the next bus?
Circle your answer.   [1]

09:32   09:36   09:39   09:49   09:52
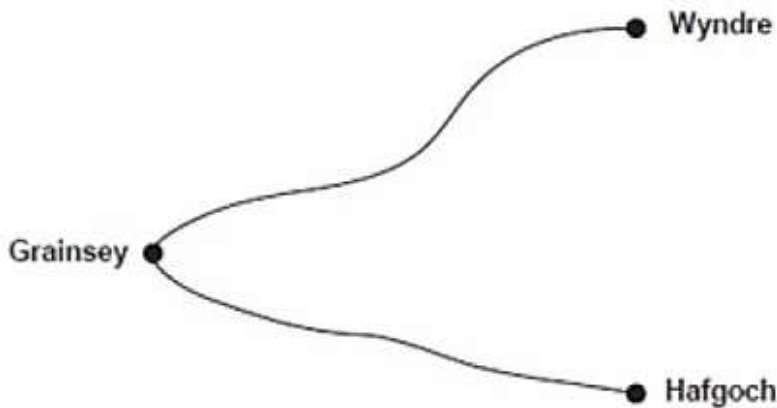
(b)   From Grainsey, the Number 6 bus runs to Wyndre and the Number 7 bus runs to Hafgoch.

Diagram not drawn to scale

The timetable for these buses is given below:

Bus Number	To	Times
6	Wyndre	First bus leaves at 10:00, then every 20 minutes after this time.
7	Hafgoch	First bus leaves at 10:00, then every 45 minutes after this time.

After 10:00, when will the Number 6 bus and the Number 7 bus next leave Grainsey at the same time?   [4]

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Intermediate Numeracy Sam 1 P1 Q5

Hari lives in Chester.
He wanted to catch the ferry to Ireland, leaving Holyhead at 12:05 p.m.
Passengers must board the ferry at least 30 minutes before sailing time.

In planning his journey, he allowed himself 20 minutes to travel from the station at
Holyhead to the ferry.
He wanted to catch the latest possible train from Chester to be sure of arriving on
board the ferry in time.

Part of the train timetable he used is shown below.

Chester (depart)	07:19	08:55	09:58	10:24
Holyhead (arrival)	09:22	10:35	11:22	12:23

Hari caught the train he wanted, and the train arrived at Holyhead station on time.
The time to travel from the station to the ferry took a total of 25 minutes.

Calculate the total time taken between Hari departing from Chester and arriving at
the ferry.   [4]

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Intermediate Numeracy Nov 2018 P1 Q6c

(c)   When it is 19:40 in Cardiff, it is 23:40 in Dubai.

    (i)   What time is it in Dubai when it is 13:30 in Cardiff?
          Circle your answer.   [1]

    15:30   10:30   09:30   17:30   19:30

    (ii)   What time is it in Cardiff when it is 02:10 in Dubai?
           Circle your answer.   [1]

    20:10   06:10   22:10   10:10   00:10

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Intermediate Numeracy Nov 2016 P1 Q7

When it is 21:30 on a Tuesday in London, it is 02:30 on a Wednesday in Dhaka, Bangladesh.

It takes 10 hours 30 minutes to fly from Dhaka to London.
A flight leaves Dhaka on Thursday at 13:00 local Dhaka time.

On what day and at what time should this flight arrive in London?
Give your answer in local London time.   [4]

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