

# N7N8 Time 12&24 Hour&Bus timetables

OCR

Edexcel

9 Davos is a cleaner.

Video created by W Neill

The table shows information about the time it will take him to clean each of four rooms in a house.

Room	Time
Kitchen	2 hours
Sitting room	1 hour 40 minutes
Bedroom	$1\frac{1}{2}$ hours
Bathroom	45 minutes

Davos wants to clean all four rooms in one day.  
He will have breaks for a total time of 75 minutes.

Davos is going to start cleaning at 9 am.

Will he finish cleaning by 4 pm?  
You must show all your working.

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120 min

100 min

90 min

45 min

Breaks = 75 min

Davos wants to clean all four rooms in one day.  
He will have breaks for a total time of 75 minutes.

9am  $\longrightarrow$  4pm (7hrs = 420min)

Davos is going to start cleaning at 9 am.

work & breaks  
430 min

Will he finish cleaning by 4 pm?  
You must show all your working.

No he will not  
finish cleaning  
finish at 4.10pm

5 Here is part of a train timetable from Lostock to Preston.

Lostock	07 46	08 16		08 46	08 57
Horwich	07 50	08 20	08 39	08 50	09 01
Blackrod	07 53			08 53	
Adlington	07 57	08 25		08 57	
Chorley	08 02	08 30	08 47	09 02	09 09
Buckshaw	08 06	08 33		09 05	
Leyland	08 15	08 40		09 12	
Preston	08 20	08 49	08 59	09 17	09 22

Ariz wants to go from Horwich to Leyland by train.  
He gets to the station at Horwich at 08 30

(b) What is the earliest time he can get to Leyland?

.....  
(1)

Mike wants to go from Blackrod to Preston by train.  
He needs to get to Preston by 09 25

(c) What is the latest train he can get from Blackrod?

.....  
(1)

5 Here is part of a train timetable from Lostock to Preston.

Lostock	07 46	08 16		08 46	08 57
Horwich	07 50	08 20	08 39	08 50	09 01
Blackrod	07 53			08 53	
Adlington	07 57	08 25		08 57	
Chorley	08 02	08 30	08 47	09 02	09 09
Buckshaw	08 06	08 33		09 05	
Leyland	08 15	08 40		09 12	
Preston	08 20	08 49	08 59	09 17	09 22

(a) How long should the 07 46 train take to go from Lostock to Buckshaw?



5 A film starts at 19 30  
The film lasts 104 minutes.

N7

At what time does the film end?

.....  
**(Total for Question 5 is 2 marks)**

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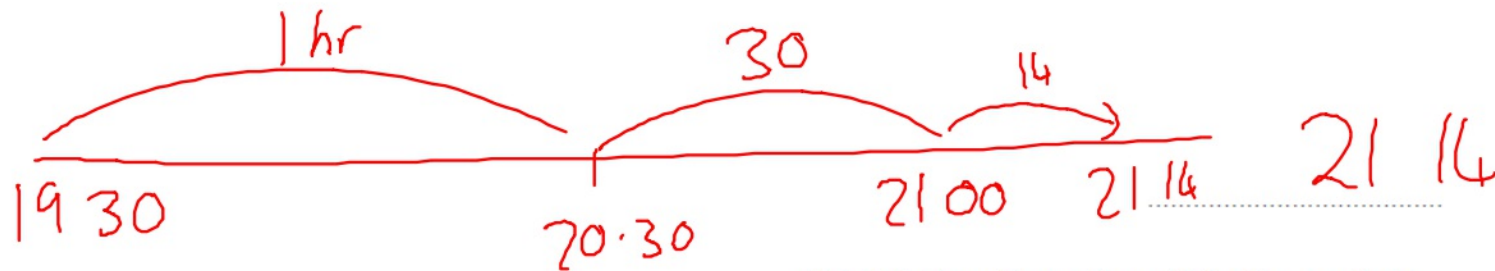


- 5 A film starts at 19 30  
The film lasts 104 minutes.

N7

At what time does the film end?

$$104 \text{ min} = 1 \text{ hr } 44 \text{ m}$$



(Total for Question 5 is 2 marks)

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Will he finish cleaning by 4 pm?  
You must show all your working.

No he will not  
finish cleaning  
finish at 4.10pm

4 The table gives information about the prices of cinema tickets.

Created by W Neill

<b>Cinema ticket</b>	<b>Price</b>
adult ticket	£7.80
child ticket	£5.80
family ticket (for 4 people)	£24.30

Mr Edwards and his 3 children go to the cinema.

It is cheaper for Mr Edwards to buy 1 family ticket rather than 4 separate tickets.

(a) How much cheaper?

.....  
(3)

The film starts at 6.45 pm.

The film lasts 102 minutes.

(b) What time does the film finish?

4 The table gives information about the prices of cinema tickets.

Created by W Neill

Cinema ticket	Price
adult ticket	£7.80
child ticket	£5.80
family ticket (for 4 people)	£24.30

Single tickets

$$1 \times £7.80 = £7.80$$

$$3 \times £5.80 = \underline{£17.40}$$

$$£25.20$$

Mr Edwards and his 3 children go to the cinema.

It is cheaper for Mr Edwards to buy 1 family ticket rather than 4 separate tickets.

(a) How much cheaper?

$$\text{family ticket} = £24.30$$

$$£25.20 - £24.30$$

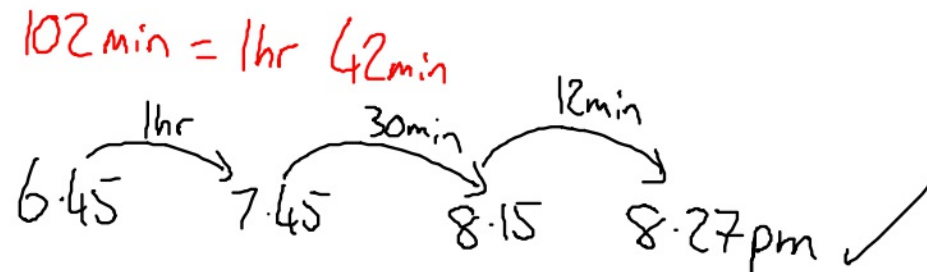
$$\underline{\quad 90p \text{ or } £0.90}$$

(3)

The film starts at 6.45 pm.

The film lasts 102 minutes.

(b) What time does the film finish?



9 This is part of a bus timetable between Bury and Manchester.

NS

<b>Bury</b>	08 25	08 55	09 15	09 30	09 45	10 05
Whitefield	08 34	09 04	09 24	09 39	09 54	10 14
Heaton Park	08 46	09 16	09 36	09 51	10 06	10 27
Cheetham	08 56	09 26	09 46	10 01	10 16	10 37
<b>Manchester</b>	09 05	09 35	09 55	10 10	10 25	10 48

(a) How many minutes should the 08 25 bus take to go from Bury to Manchester?

..... minutes

(1)

<b>Bury</b>	08 25	08 55	09 15	09 30	09 45	10 05
Whitefield	08 34	09 04	09 24	09 39	09 54	10 14
Heaton Park	08 46	09 16	09 36	09 51	10 06	10 27
Cheetham	08 56	09 26	09 46	10 01	10 16	10 37
<b>Manchester</b>	09 05	09 35	09 55	10 10	10 25	10 48

Daniel goes from Whitefield to Manchester by bus.

Daniel takes 17 minutes to get from his house to the bus stop in Whitefield.  
He takes 15 minutes to get from the bus stop in Manchester to work.

Daniel has to get to work by 10 am.  
He leaves his house at 8.45 am.

(b) Does Daniel get to work by 10 am?  
You must show all your working.

*NS*



<b>Bury</b>	08 25	08 55	09 15	09 30	09 45	10 05
→ Whitefield	08 34	09 04	09 24	09 39	09 54	10 14
Heaton Park	08 46	09 16	09 36	09 51	10 06	10 27
Cheetham	08 56	09 26	09 46	10 01	10 16	10 37
→ <b>Manchester</b>	09 05	09 35	09 55	10 10	10 25	10 48

Daniel goes from Whitefield to Manchester by bus.

Daniel takes 17 minutes to get from his house to the bus stop in Whitefield.  
He takes 15 minutes to get from the bus stop in Manchester to work.

Daniel has to get to work by 10 am.  
He leaves his house at 8.45 am.

(b) Does Daniel get to work by 10 am?  
You must show all your working.

NB

Yes, he gets there at  
0950 ✓

leaves 0845  
+ 17 min  
0902  
Gets bus 0904  
Gets off 0935  
+ 15 min  
Gets to work 0950 ✓  
(3)

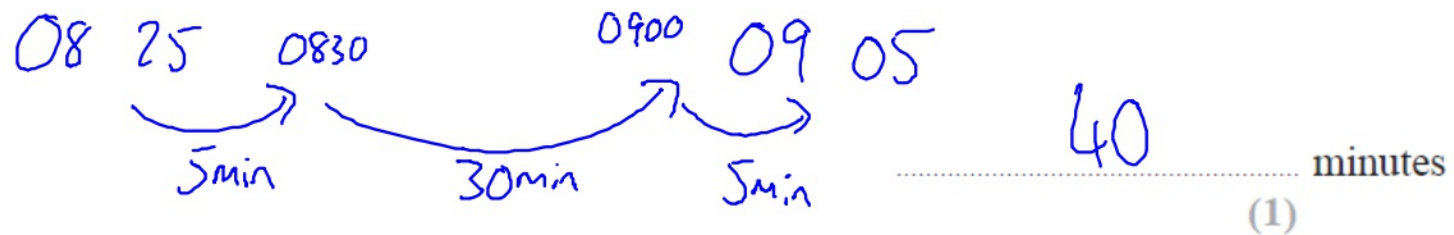


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(a) How many minutes should the 08 25 bus take to go from Bury to Manchester?



AQA

3 Work out  $1.1 - 0.15$

Circle your answer.

N6

[1 mark]

0.95

1.05

0.85

1.085

$$\begin{array}{r} 1.10 \\ - 0.15 \\ \hline 0.95 \end{array}$$

1

How many minutes are there in  $3\frac{1}{2}$  hours?

N7

Circle your answer.

[1 mark]

180.5

210

330

350

$$1 \text{ hr} = 60 \text{ min}$$

$$3 \text{ hrs} = 180 \text{ min}$$

$$\frac{1}{2} \text{ hr} = 30 \text{ min}$$

$$\begin{array}{r} 180 \\ + 30 \\ \hline 210 \end{array}$$

1 How many minutes are there in  $2\frac{1}{4}$  hours?

N7 Circle your answer.

**[1 mark]**

135

145

215

225

1

How many minutes are there in  $2\frac{1}{4}$  hours?

$$1 \text{ hr} = 60 \text{ min}$$

N7

Circle your answer.

$$\frac{1}{4} = 15 \text{ min}$$

$$2 \text{ hrs} = 120 \text{ min}$$

[1 mark]

135

145

215

225

9

The time in Rio is three hours behind London.

N7

The time in New York is five hours behind London.

What is the time in New York when it is 1.00 am in Rio?

**[2 marks]**

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Answer \_\_\_\_\_

9

The time in Rio is three hours behind London.

N7

The time in New York is five hours behind London.

What is the time in New York when it is 1.00 am in Rio?

[2 marks]

New York	Rio	London
12 noon	2pm	5pm
	← -2hrs	
11pm	1am	

Answer 11pm or 23:00 ✓



Video created by W Neill

12

How many minutes are there in  $5\frac{1}{4}$  hours?

N7

Circle your answer.

[1 mark]

315

325

515

525

12

How many minutes are there in  $5\frac{1}{4}$  hours?

N7

Circle your answer.

$$\frac{1}{4}\text{hr} = 15\text{min}$$

[1 mark]

315

325

515

525

$$5\text{hrs} = 5 \times 60 = 300\text{min}$$

$$300 + 15 = 315$$

8 (b) The table shows how long Lena spends on each piece of equipment.

N7

Rowing machine	15 minutes
Stepper	13 minutes
Treadmill	35 minutes
Bike	1 hour 30 minutes

Lena starts on the rowing machine at 1.50 pm

She has a break for 4 minutes between pieces of equipment.

What time does she finish on her last piece of equipment?

**[3 marks]**

Answer \_\_\_\_\_

8 (b) The table shows how long Lena spends on each piece of equipment.

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Rowing machine	15 minutes ✓
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