

1 Davos is a cleaner.

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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(Total for Question 1 is 3 marks)

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

<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)

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.

(3)

(Total for Question 2 is 4 marks)

3 Machine A and machine B both make car parts.

Machine A makes 6 parts every 10 minutes.

Machine B makes 13 parts every 15 minutes.

On Monday

machine A makes parts for 12 hours

machine B makes parts for 10 hours

Work out the total number of parts made by the two machines on Monday.

.....  
**(Total for Question 3 is 4 marks)**

4 Liz is watching a film at the cinema.

The film started at 14 30

The film is 105 minutes long.

When the film ends, Liz takes 20 minutes to get to the bus stop.

A bus leaves the bus stop at 16 45

Does Liz get to the bus stop in time to get this bus?

You must show all your working.

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**(Total for Question 4 is 3 marks)**

5 What is the time 2 hours 40 minutes after 8.05 am?

..... am

**(Total for Question 5 is 1 mark)**

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6 Elena spent 120 minutes at a sports centre.

She played badminton for 50 minutes.

She used the swimming pool for  $\frac{1}{6}$  of the 120 minutes.

She used the gym for 20% of the 120 minutes.

She then spent the rest of the 120 minutes in the cafe.

(a) Work out the total time, in minutes, that Elena spent in the cafe.

..... minutes  
(4)

Elena got to the sports centre at 1.30 pm.

She had asked her friend to meet her in the cafe at 3 pm.

(b) Did Elena get to the cafe by 3 pm?  
Give a reason for your answer.

.....  
.....  
..... (1)

**(Total for Question 6 is 5 marks)**

7 Here is part of a bus timetable between Wigan and Bolton.

<b>Wigan</b>	07 20		07 40		07 55
<b>Blackrod</b>	07 49		08 09		08 24
<b>Horwich</b>	08 00	08 14	08 20	08 29	08 36
<b>Lostock</b>	08 09	08 20	08 29	08 37	08 44
<b>Park Road</b>	08 14	08 34	08 41	08 48	08 58
<b>Bolton</b>	08 32	08 51	08 58	09 05	09 15

(a) How many minutes should the 07 20 bus take to go from Wigan to Lostock?

..... minutes  
(2)

Alison goes from Blackrod to Bolton by bus.

One day Alison leaves her house at 08 00

She takes 7 minutes to walk to the bus stop in Blackrod.

She takes 15 minutes to walk from the bus stop in Bolton to work.

Alison needs to be at work for 09 20

(b) Will Alison get to work for 09 20?

You must show how you get your answer.

(3)

**(Total for Question 7 is 5 marks)**

8 Here is part of a train timetable.

<b>Brighton</b>	07 22	07 29	07 32
<b>London</b>	09 00	08 32	08 48

Graham gets to the station in Brighton at 07 15

(a) Work out how many minutes he has to wait until 07 22

..... minutes  
(1)

(b) Work out how long it will take the 07 22 train to get to London.

.....  
(2)

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**(Total for Question 8 is 3 marks)**