



Education Consultancy

Edexcel GCSE Mathematics TIME TABLES & DISTANCE TABLES

Materials Required:

- Pen
- HB Pencil
- Ruler (in centimetres and millimetres)
 - Protractor
 - Compass

Information:

- The marks allocated for each question are displayed within brackets – utilise this information to gauge the appropriate amount of time to dedicate to each question
- Questions marked with an asterisk (*) will assess your written communication; be careful of spelling, punctuation and grammar with these questions

Instructions:

- Use a black ink pen to answer all questions
 - Fill your name in the section below
- Answer the questions in the spaces provided
 - Show your working out for all answers

Advice:

- Carefully read the question before attempting to answer it
- Be vary of time and try to answer every question
- If you have enough time in the end, go back and check your answers. A good way to check your answers is to retry the question with the hope of getting the same answer as before without looking at your working out from before

NO CALCULATOR ALLOWED

| NAME: | |
|-------|--|

1. Here is part of a railway timetable.

| Manchester | 07:53 | 09:17 | 10:35 | 11:17 | 13:30 | 14:36 | 16:26 |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| Stockport | 08:01 | 09:26 | 10:43 | 11:25 | 13:38 | 14:46 | 16:39 |
| Macclesfield | 08:23 | 09:38 | 10:58 | 11:38 | 13:52 | 14:58 | 17:03 |
| Congleton | 08:31 | _ | _ | 11:49 | _ | 15:07 | 17:10 |
| Kidsgrove | 08:37 | _ | _ | _ | _ | _ | 17:16 |
| Stoke-on-Trent | 08:49 | 10:00 | 11:23 | 12:03 | 14:12 | 15:19 | 17:33 |

A train leaves Manchester at 10:35.

(a) At what time should this train arrive in Stoke-on-Trent?

Doris has to go to a meeting in Stoke-on-Trent.

She will catch the train in Stockport.

She needs to arrive in Stoke-on-Trent before 2pm for her meeting.

(b) Write down the time of the latest train she can catch in Stockport.

(c) Work out how many minutes it should take the 14:36 train from Manchester to get to Stoke-on-Trent.

$$14:36 \rightarrow 15:19$$

$$24+19$$

$$= 43$$
(1)

The 14:36 train from Manchester to Stoke-on-Trent takes less time than the 16:26 train from Manchester to Stoke-on-Trent. 6 7 - 43 = 24

(d) How many minutes less?

$$14:36 \rightarrow 15:19 = 43m$$

 $16:26 \rightarrow 17:33 = 67m$

24...minutes (2) (5 marks)

2. Here is part of a train timetable for six trains from Birmingham to London.

| Train | A | В | C | D | E | F |
|------------|-------|-------|-------|-------|-------|-------|
| Birmingham | 06:35 | 07:00 | 07:15 | 07:30 | 07:45 | 08:00 |
| London | 08:09 | 08:39 | 08:48 | 09:04 | 09:59 | 09:39 |

(a) Which train takes more than 2 hours to go from Birmingham to London?

<u>E</u> (1)

(b) Work out the number of **minutes** taken by train **D** to go from Birmingham to London.

 $07:30 \rightarrow 09:04$ + 30mins + Ihr + 4mins 94= Ihr 34 mins = 94mins (2)

- (1) Paula has to go to a meeting in London.

 She will catch one of the six trains from Birmingham.

 She needs to arrive in London before 09:00
 - (c) Write down the latest train that she can catch.

(1)

(4 marks)

3. The table shows part of a bus timetable from Shotton to Alton.

| Shotton | 07:30 | 08:00 | 09:00 | 10:00 | 11:00 |
|---------|-------|-------|-------|-------|-------|
| Crook | 07:45 | 08:15 | 09:15 | 10:15 | 11:15 |
| Prudhoe | 07:58 | 08:28 | 09:28 | 10:28 | 11:28 |
| Hexham | 08:15 | 08:45 | 09:45 | 10:45 | 11:45 |
| Alton | 08:30 | 09:00 | 10:00 | 11:00 | 12:00 |

A bus leaves Shotton at 07:30

(a) What time should it arrive at Alton?

8:30

Another bus leaves Prudhoe at 08:28

(b) How many minutes should it take to get to Hexham?

| 7 minutes |
|-----------|
| (1) |

Serena lives in Crook.

She has to be in Hexham by quarter past 11

(c) What is the time of the latest bus she can catch from Crook to arrive in Hexham by quarter past 11?

| 5 | 0: | |
|--------|----|--|
| (1) | | |
| marks) | (3 | |

4. Here is part of a timetable for a bus.

| Blunsdon | 07:18 | 07:45 | 08:33 |
|---------------|-------|-------|-------|
| Cricklade | 07:26 | 07:53 | 08:41 |
| Latton | 07:31 | 07:58 | 08:46 |
| South Cerney | 07:38 | 08:05 | 08:53 |
| Siddington | 07:47 | 08:14 | 09:02 |
| Seven Springs | 08:26 | 08:51 | 09:39 |
| Cheltenham | 08:50 | 09:12 | 10:00 |

A bus leaves Blunsdon at 07:45

(a) At what time should the bus arrive at Siddington?



Peter arrives at the Latton bus stop at 08:35 He waits for the next bus to Seven Springs.

(b) (i) How many minutes should he wait?

| A | |
|-------------------|-----------|
| \ | |
| \ \ | |
| | minutes |
| • • • • • • • • • | iiiiiuucs |

(ii) At what time should Peter arrive at Seven Springs?

Marie gets the bus from Cricklade at 07:26

(c) How many minutes should this bus take to travel from Cricklade to Cheltenham?

$$07:26 \rightarrow 08:50$$
 $34 \text{ mins} + 50 \text{ mins}$
 $= 84 \text{ mins}$

.... minutes **(2)**

(5 marks)

5. The table shows part of a train timetable from Weymouth to London Waterloo.

| Weymouth | 09:03 | 09:20 | 10:03 | 10:20 | 11:03 |
|------------------------|-------|--|-------|-------|-------|
| Poole | 09:40 | 10:07 | 10:40 | 11:07 | 11:40 |
| Bournemouth | 09:53 | 10:17 | 10:54 | 11:17 | 11:54 |
| Southampton | 10:26 | 10:58 | 11:28 | 11:58 | 12:28 |
| Woking | 11:19 | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 12:19 | | 13:19 |
| London Waterloo | 11:49 | 12:20 | 12:49 | 13:20 | 13:49 |

A train leaves Weymouth at 09:03

At what time should it arrive at London Waterloo?

(1)

Another train leaves Poole at 11:40

(b) How many minutes should it take to travel to Bournemouth?

.... minutes

(1)

Sally lives in Weymouth.

She has a meeting in Southampton at 12:00

When Sally arrives at Southampton she takes 25 minutes to travel to her meeting.

(c) What is the time of the latest train she can take from Weymouth?

(1) (3 marks)

6. Here is part of a railway timetable.

| Cambridge | 08:25 | 08:45 | 08:54 | 09:26 | 09:50 |
|------------------------|-------|-------|-------|-------|-------|
| Royston | 08:46 | 08:59 | 09:15 | 09:43 | 10:04 |
| Letchworth Garden City | 09:00 | 09:09 | 09:29 | 09:54 | 10:14 |
| Hitchin | 09:04 | 09:33 | 09:58 | - | - |
| Stevenage | 09:10 | - | 09:39 | 10:03 | - |
| Finsbury Park | 09:41 | - | 10:09 | 10:21 | (-) |
| London | 09:50 | 09:42 | 10:18 | 10:30 | 10:46 |

| Α | train | leaves | Cambridge | at | 09:26 |
|-----|-------|----------|-----------|----|-------|
| 7 7 | uam | 1Ca v Cs | Cambridge | uι | 07.20 |

| (| ัล` | At what | time sho | ould this | train | arrive | in | Londo | on' | 7 |
|---|-----|-----------|----------|-----------|-------|--------|-----|-------|------|---|
| ١ | a | , Ai whai | unic sin | Juiu uiis | uam | allive | 111 | Lond | JII. | ٠ |

10:30

A different train leaves Cambridge at 09:50

(b) Work out how many minutes this train should take to get to London.

5.6 (1) minutes

Susan lives in Royston.

She has to be in Stevenage by 10a.m.

(c) What is the time of the latest train she can catch from Royston to arrive in Stevenage by 10a.m.?

9:15 (1)

7. Here is part of a train timetable from Birmingham to Leicester.

| Birmingham | 06:23 | 06:53 | 07:23 | 07:53 |
|------------|-------|-------|-------|-------|
| Coleshill | 06:35 | 07:05 | 07:35 | 08:05 |
| Nuneaton | 07:00 | 07:22 | 07:51 | 08:22 |
| Hinckley | 00:00 | 07:29 | 07:58 | 08:29 |
| Leicester | 07:17 | 07:48 | 08:17 | 08:48 |

A train leaves Birmingham at 06:53

(a) (i) What time should this train get to Hinckley?

| | 1 | • | 7 | Q | 1 | |
|--|---|---|---|---|---|--|
| | | • | | | 1 | |

(ii) How many minutes should this train take to get to Hinckley?

| 2 | |
|---|---------|
| | minutes |
| | (2) |

Silvia wants to catch a train in Nuneaton. She needs to get to Leicester **before** 08:30

(b) Write down the time of the latest train Silvia can catch from Nuneaton.

A train will leave Leicester at 07:27 for Stansted Airport.

The train should take 2 hours 28 minutes to go from Leicester to Stansted Airport.

(c) What time should the train get to Stansted Airport?

$$07:27 + 28 \text{ mins} = 07:55$$

 $07:55 + 2 \text{ hrs} = 09:55$

(4 marks)

8. Here is part of a train timetable from Crewe to London.

| Station | Time of Leaving |
|---------------|-----------------|
| Crewe | 08:00 |
| Wolverhampton | 08:40 |
| Birmingham | 09:00 |
| Coventry | 09:30 |
| Rugby | 09:40 |
| Milton Keynes | 10:10 |

(a) At what time should the train leave Coventry?

The train should arrive in London at 10:45

(b) How long should the train take to travel from Crewe to London?

Verity arrived at Milton Keynes station at 09:53

(c) How many minutes should she have to wait before the 10:10 train leaves?

..... minutes

(1)

Lisa uses her railcard to buy a ticket.

She gets $\frac{1}{3}$ off the normal price of the ticket.

The normal price of the ticket is £24.90

Young Person's RAILCARD $\frac{1}{2}$ off normal price

(d) Work out how much Lisa pays for the ticket.

$$\begin{cases} 24 \left| \frac{1}{3} \times \frac{24}{1} \right| = \frac{24}{3} = 8 \\ \frac{1}{3} \times \frac{90}{1} = \frac{90}{3} = 30 \end{cases}$$

£

(3)

San Francisco

(7 marks)

9. The table shows the distances in kilometres between some cities in the USA. Boston

| 1589 | Chicago | _ | | |
|------|---------|-------------|-------|----------|
| 4891 | 3366 | Los Angeles | | |
| 2474 | 2184 | 4373 | Miami | |
| 342 | 1352 | 4539 | 2133 | New York |
| 5067 | 3493 | 667 | 4990 | 4826 |

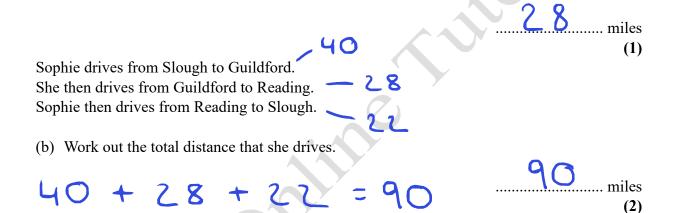
More information and resources available at www.BishopsOnlineTutoring.com For video tutorials check us out on YouTube, Instagram and TikTok @Bishops_Online_Tutoring

| | | | 453 | km |
|--|--|--|------------------------------|----------|
| e of the cities ir | the table is 2184 | 4 km from Miami. | | |
| (b) Write do | own the name of | this city. | | |
| | | | Chi | <u> </u> |
| | | | | |
| (c) Write do | wn the name of the | he city which is furt | | |
| | | | Bos | ton |
| | | | X | |
| | | | | ′ |
| table shows t | the distances in k | ilometres between 5 | 5 cities. | |
| Hull | | | | |
| 100 | Leeds | | | |
| | 73 | Manchester | | |
| 162 | | | | |
| 162 110 | 60 | 65 | Sheffield | |
| | 60 | 65 118 | Sheffield 95 | York |
| 63 | 40 | 118 | 95 | York |
| 63 | 40 | | 95 | 2 |
| 63 | 40 | 118 | 95 | York Lkm |
| 110 63 (a) Write d | down the distance | 118 e between Hull and | 95 Manchester. | 2 |
| 110 63 (a) Write d | down the distance | 2 between Hull and I want the name of the | 95 Manchester. | 2 |
| 110 63 (a) Write 6 | down the distance | 118 e between Hull and | 95 Manchester. | 2 |
| 110 63 (a) Write 6 (b) From the first term of th | down the distance | abetween Hull and I | 95 Manchester6 city which is | 2 |
| 110 63 (a) Write d (b) From th | down the distance the table, write do nearest to Hull, | a between Hull and betw | 95 Manchester6 city which is | 2 |

| Reading | | | | |
|---------|--------|-----------|--------|------------|
| 22 | Slough | | | |
| 28 | 40 | Guildford | | |
| 30 | 22 | 47 | Oxford | |
| 45 | 28 | 66 | 25 | Buckingham |

The table gives distances in miles by road between some towns.

(a) Write down the distance between Reading and Guildford.



12. The diagram shows the distances, in miles, between some service areas on the M1 motorway.

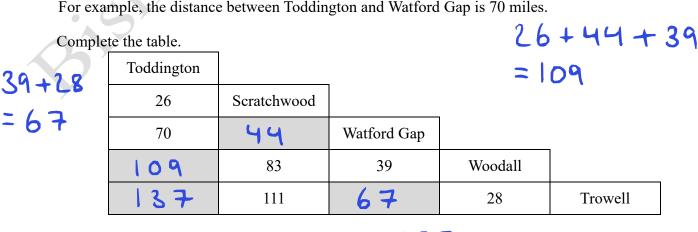
(3 marks)

(3 marks)



For example, the distance between Toddington and Watford Gap is 70 miles.

39 +



13. The table shows the distances, in miles, between 4 cities.

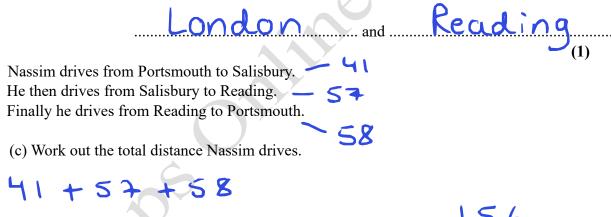
London

| 74 | Portsmouth | | |
|----|------------|---------|------|
| 39 | 58 | Reading | |
| 97 | 41 | 57 | Sali |

(a) Write down the distance between London and Salisbury.

| X | 7 | |
|---|---|-------|
| | • | miles |
| | | (1) |

(b) Which two cities are the shortest distance apart?



41 + 57 + 58 = 156= 156

(5 marks)