



**Bishops
Online
Tutoring**



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
Kids Grove	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?

11:23

(1)

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.

11:25

(1)

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

14:36 → 15:19

24 + 19
= 43

43 minutes

(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.

67 - 43 = 24

- (d) How many minutes less?

14:36 → 15:19 = 43m

16:26 → 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	B	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?

E
.....
(1)

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

07:30 → 09:04
+ 30mins + 1hr + 4mins
= 1hr 34mins = 94mins
..... minutes
(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.

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

Another bus leaves Prudhoe at 08:28

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

17 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?

10:15
(1)
(3 marks)

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?

8:14
(1)

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?

11 minutes

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

9:39

(2)

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 → 08:50

34 mins + 50 mins

= 84 mins

84

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

(a) At what time should it arrive at London Waterloo?

11:49

(1)

Another train leaves Poole at 11:40

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

14

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?

10:03

(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

A train leaves Cambridge at 09:26

- (a) At what time should this train arrive in London?

10:30 (1)

A different train leaves Cambridge at 09:50

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

56 (1)

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)

(3 marks)

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?

07:29

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

.....3..... 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.

.....07:51.....
(1)

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 mins = 07:55
07:55 + 2 hrs = 09:55

.....09:55.....
(1)

(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?

09:30
(1)

The train should arrive in London at 10:45

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

08:00 → 10:45
+ 2hrs + 45mins
= 2hrs 45mins
2hrs 45mins
(2)

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

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

$$£24 \left| \frac{1}{3} \times \frac{24}{1} = \frac{24}{3} = 8 \right.$$

$$\frac{1}{3} \times \frac{90}{1} = \frac{90}{3} = 30$$

Young Person's RAILCARD
 $\frac{1}{3}$ off normal price

£

(3)

(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
San Francisco				

(a) Write down the distance between Los Angeles and New York.

.....4539.....km

(1)

One of the cities in the table is 2184 km from Miami.

(b) Write down the name of this city.

.....Chicago.....

(1)

(c) Write down the name of the city which is furthest from San Francisco.

.....Boston.....

(1)

(3 marks)

10. The table shows the distances in kilometres between 5 cities.

Hull				
100	Leeds			
162	73	Manchester		
110	60	65	Sheffield	
63	40	118	95	York

(a) Write down the distance between Hull and Manchester.

.....162..... km

(1)

(b) From the table, write down the name of the city which is

(i) nearest to Hull,York.....

(ii) 60 km from Sheffield.Leeds.....

(2)

(3 marks)

11.

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.

..... **28** miles
(1)

Sophie drives from Slough to Guildford.

She then drives from Guildford to Reading.

Sophie then drives from Reading to Slough.

(b) Work out the total distance that she drives.

40 + 28 + 22 = 90 **90** miles
(2)
(3 marks)

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



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

Complete the table.

39 + 28 = 67

26 + 44 + 39 = 109

Toddington				
26	Scratchwood			
70	44	Watford Gap		
109	83	39	Woodall	
137	111	67	28	Trowell

26 + 44 + 39 + 28 = 137 (3 marks)

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

London		
74	Portsmouth	
39	58	Reading
97	41	57
Salisbury		

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

97 miles
(1)

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

London and Reading
(1)

Nassim drives from Portsmouth to Salisbury. — 41

He then drives from Salisbury to Reading. — 57

Finally he drives from Reading to Portsmouth. — 58

- (c) Work out the total distance Nassim drives.

$$41 + 57 + 58$$

$$= 156$$

156 miles
(3)

(5 marks)