TIME TABLES & DISTANCE TABLES

Materials required for examination
Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.
Tracing paper may be used.

Items included with question papers
Nil

Instructions
Use black ink or ball-point pen.
Fill in the boxes at the top of this page with your name, centre number and candidate number.
Answer all questions.
Answer the questions in the spaces provided – there may be more space than you need.
Calculators may be used.

Information
The marks for each question are shown in brackets – use this as a guide as to how much time to spend on each question.
Questions labelled with an asterisk (*) are ones where the quality of your written communication will be assessed – you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

Advice
Read each question carefully before you start to answer it.
Keep an eye on the time.
Try to answer every question.
Check your answers if you have time at the end.
1. Here is part of a railway timetable.

<table>
<thead>
<tr>
<th></th>
<th>07 53</th>
<th>09 17</th>
<th>10 35</th>
<th>11 17</th>
<th>13 30</th>
<th>14 36</th>
<th>16 26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manchester</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stockport</td>
<td>08 01</td>
<td>09 26</td>
<td>10 43</td>
<td>11 25</td>
<td>13 38</td>
<td>14 46</td>
<td>16 39</td>
</tr>
<tr>
<td>Macclesfield</td>
<td>08 23</td>
<td>09 38</td>
<td>10 58</td>
<td>11 38</td>
<td>13 52</td>
<td>14 58</td>
<td>17 03</td>
</tr>
<tr>
<td>Congleton</td>
<td>08 31</td>
<td>–</td>
<td>–</td>
<td>11 49</td>
<td>–</td>
<td>15 07</td>
<td>17 10</td>
</tr>
<tr>
<td>Kidsgrove</td>
<td>08 37</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>17 16</td>
</tr>
<tr>
<td>Stoke-on-Trent</td>
<td>08 49</td>
<td>10 00</td>
<td>11 23</td>
<td>12 03</td>
<td>14 12</td>
<td>15 19</td>
<td>17 33</td>
</tr>
</tbody>
</table>

A train leaves Manchester at 10 35.

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

.......................... (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 2 pm for her meeting.

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

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

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

.......... 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.

(d) How many minutes less?

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

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

<table>
<thead>
<tr>
<th>Train</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birmingham</td>
<td>06 35</td>
<td>07 00</td>
<td>07 15</td>
<td>07 30</td>
<td>07 45</td>
<td>08 00</td>
</tr>
<tr>
<td>London</td>
<td>08 09</td>
<td>08 39</td>
<td>08 48</td>
<td>09 04</td>
<td>09 59</td>
<td>09 39</td>
</tr>
</tbody>
</table>

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

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

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

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

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.

<table>
<thead>
<tr>
<th></th>
<th>Shotton</th>
<th>Crook</th>
<th>Prudhoe</th>
<th>Hexham</th>
<th>Alton</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>07 30</td>
<td>07 45</td>
<td>07 58</td>
<td>08 15</td>
<td>08 30</td>
</tr>
<tr>
<td></td>
<td>08 00</td>
<td>08 15</td>
<td>08 28</td>
<td>08 45</td>
<td>09 00</td>
</tr>
<tr>
<td></td>
<td>09 00</td>
<td>09 15</td>
<td>09 28</td>
<td>09 45</td>
<td>10 00</td>
</tr>
<tr>
<td></td>
<td>10 00</td>
<td>10 15</td>
<td>10 28</td>
<td>10 45</td>
<td>11 00</td>
</tr>
<tr>
<td></td>
<td>11 00</td>
<td>11 15</td>
<td>11 28</td>
<td>11 45</td>
<td>12 00</td>
</tr>
</tbody>
</table>

A bus leaves Shotton at 07 30

(a) What time should it arrive at Alton?

............................................

(1)

Another bus leaves Prudhoe at 08 28
(b) How many minutes should it take to get to Hexham?

............................................ 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?

............................................

(1)

(3 marks)
4. Here is part of a timetable for a bus.

<table>
<thead>
<tr>
<th>Location</th>
<th>07 18</th>
<th>07 45</th>
<th>08 33</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blunsdon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cricklade</td>
<td>07 26</td>
<td>07 53</td>
<td>08 41</td>
</tr>
<tr>
<td>Latton</td>
<td>07 31</td>
<td>07 58</td>
<td>08 46</td>
</tr>
<tr>
<td>South Cerney</td>
<td>07 38</td>
<td>08 05</td>
<td>08 53</td>
</tr>
<tr>
<td>Siddington</td>
<td>07 47</td>
<td>08 14</td>
<td>09 02</td>
</tr>
<tr>
<td>Seven Springs</td>
<td>08 26</td>
<td>08 51</td>
<td>09 39</td>
</tr>
<tr>
<td>Cheltenham</td>
<td>08 50</td>
<td>09 12</td>
<td>10 00</td>
</tr>
</tbody>
</table>

A bus leaves Blunsdon at 07 45

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

............................................

(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?

............................................ minutes

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

............................................

(2)

Marie gets the bus from Cricklade at 07 26

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

............................................ minutes

(2)

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

<table>
<thead>
<tr>
<th>Weymouth</th>
<th>0903</th>
<th>0920</th>
<th>1003</th>
<th>1020</th>
<th>1103</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poole</td>
<td>0940</td>
<td>1007</td>
<td>1040</td>
<td>1107</td>
<td>1140</td>
</tr>
<tr>
<td>Bournemouth</td>
<td>0953</td>
<td>1017</td>
<td>1054</td>
<td>1117</td>
<td>1154</td>
</tr>
<tr>
<td>Southampton</td>
<td>1026</td>
<td>1058</td>
<td>1128</td>
<td>1158</td>
<td>1228</td>
</tr>
<tr>
<td>Woking</td>
<td>1119</td>
<td>1219</td>
<td>1319</td>
<td></td>
<td></td>
</tr>
<tr>
<td>London Waterloo</td>
<td>1149</td>
<td>1220</td>
<td>1249</td>
<td>1320</td>
<td>1349</td>
</tr>
</tbody>
</table>

A train leaves Weymouth at 09 03
(a) 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.

<table>
<thead>
<tr>
<th>Cambridge</th>
<th>08 25</th>
<th>08 45</th>
<th>08 54</th>
<th>09 26</th>
<th>09 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Royston</td>
<td>08 46</td>
<td>08 59</td>
<td>09 15</td>
<td>09 43</td>
<td>10 04</td>
</tr>
<tr>
<td>Letchworth Garden City</td>
<td>09 00</td>
<td>09 09</td>
<td>09 29</td>
<td>09 54</td>
<td>10 14</td>
</tr>
<tr>
<td>Hitchin</td>
<td>09 04</td>
<td>09 33</td>
<td>09 58</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Stevenage</td>
<td>09 10</td>
<td>-</td>
<td>09 39</td>
<td>10 03</td>
<td>-</td>
</tr>
<tr>
<td>Finsbury Park</td>
<td>09 41</td>
<td>-</td>
<td>10 09</td>
<td>10 21</td>
<td>-</td>
</tr>
<tr>
<td>London</td>
<td>09 50</td>
<td>09 42</td>
<td>10 18</td>
<td>10 30</td>
<td>10 46</td>
</tr>
</tbody>
</table>

A train leaves Cambridge at 09 26
(a) At what time should this train arrive in London?
................................................................. (1)

A different train leaves Cambridge at 09 50
(b) Work out how many minutes this train should take to get to London.
................................................................. minutes (1)

Susan lives in Royston.
She has to be in Stevenage by 10 a.m.
(c) What is the time of the latest train she can catch from Royston to arrive in Stevenage by 10 a.m.?
................................................................. (1)

(3 marks)
7. Here is part of a train timetable from Birmingham to Leicester.

<table>
<thead>
<tr>
<th></th>
<th>06 23</th>
<th>06 53</th>
<th>07 23</th>
<th>07 53</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birmingham</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coleshill</td>
<td>06 35</td>
<td>07 05</td>
<td>07 35</td>
<td>08 05</td>
</tr>
<tr>
<td>Nuneaton</td>
<td>07 00</td>
<td>07 22</td>
<td>07 51</td>
<td>08 22</td>
</tr>
<tr>
<td>Hinckley</td>
<td>00 00</td>
<td>07 29</td>
<td>07 58</td>
<td>08 29</td>
</tr>
<tr>
<td>Leicester</td>
<td>07 17</td>
<td>07 48</td>
<td>08 17</td>
<td>08 48</td>
</tr>
</tbody>
</table>

A train leaves Birmingham at 06 53

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

..............................................

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

.............................................. 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.

..............................................

(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?

..............................................

(1)

(4 marks)
8. Here is part of a train timetable from Crewe to London.

<table>
<thead>
<tr>
<th>Station</th>
<th>Time of Leaving</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crewe</td>
<td>08 00</td>
</tr>
<tr>
<td>Wolverhampton</td>
<td>08 40</td>
</tr>
<tr>
<td>Birmingham</td>
<td>09 00</td>
</tr>
<tr>
<td>Coventry</td>
<td>09 30</td>
</tr>
<tr>
<td>Rugby</td>
<td>09 40</td>
</tr>
<tr>
<td>Milton Keynes</td>
<td>10 10</td>
</tr>
</tbody>
</table>

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

.......................................

(1)

The train should arrive in London at 10 45

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

.......................................

(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.

£ ..................................

(3)
9. The table shows the distances in kilometres between some cities in the USA.

<table>
<thead>
<tr>
<th></th>
<th>Boston</th>
<th>Chicago</th>
<th>Los Angeles</th>
<th>Miami</th>
<th>San Francisco</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1589</td>
<td>4891</td>
<td>2474</td>
<td>342</td>
<td>5067</td>
</tr>
</tbody>
</table>

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

………………………. km

(1)

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

(b) Write down the name of this city.

……………………….

(1)

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

……………………….

(1)

(3 marks)

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

<table>
<thead>
<tr>
<th></th>
<th>Hull</th>
<th>Leeds</th>
<th>Manchester</th>
<th>Sheffield</th>
<th>York</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100</td>
<td>162</td>
<td>110</td>
<td>63</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>73</td>
<td>60</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>

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

……………………….. km

(1)

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

(i) nearest to Hull, …………………………………………………

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

(2)

(3 marks)
11.

<table>
<thead>
<tr>
<th>Reading</th>
<th>Slough</th>
<th>Guildford</th>
<th>Oxford</th>
<th>Buckingham</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>40</td>
<td>28</td>
<td>47</td>
<td>25</td>
</tr>
<tr>
<td>30</td>
<td>22</td>
<td>66</td>
<td>25</td>
<td>47</td>
</tr>
</tbody>
</table>

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

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

........................... miles  

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.

........................... miles  

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

Toddington | Scratchwood | Watford Gap | Woodall | Trowell  
---|-------------|-------------|--------|----------
26          | 44          | 39          | 28     |

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

Complete the table.

| Toddington | Scratchwood | Watford Gap | Woodall | Trowell  
---|-------------|-------------|--------|----------|
| 26        |             |             |        |          |
| 70        | 83          | 39          |        |          |
|           | 111         |             | 28     |          |
13. The table shows the distances, in miles, between 4 cities.

<table>
<thead>
<tr>
<th></th>
<th>London</th>
<th>Portsmouth</th>
<th>Reading</th>
<th>Salisbury</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>74</td>
<td>39</td>
<td>97</td>
<td>58</td>
</tr>
<tr>
<td></td>
<td></td>
<td>58</td>
<td>41</td>
<td>57</td>
</tr>
</tbody>
</table>

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

...................................... miles  

(1)

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

........................................................ and ........................................................  

(1)

Nassim drives from Portsmouth to Salisbury.
He then drives from Salisbury to Reading.
Finally he drives from Reading to Portsmouth.

(c) Work out the total distance Nassim drives.

...................................... miles  

(3)  

(5 marks)