



# Cambridge IGCSE™

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COMPUTER SCIENCE

0478/22

Paper 2

May/June 2021

MARK SCHEME

Maximum Mark: 50

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**Published**

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the May/June 2021 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

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This document consists of **13** printed pages.

**PUBLISHED****Generic Marking Principles**

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

**GENERIC MARKING PRINCIPLE 1:**

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

**GENERIC MARKING PRINCIPLE 2:**

Marks awarded are always **whole marks** (not half marks, or other fractions).

**GENERIC MARKING PRINCIPLE 3:**

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

**GENERIC MARKING PRINCIPLE 4:**

Rules must be applied consistently, e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

**GENERIC MARKING PRINCIPLE 5:**

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

**GENERIC MARKING PRINCIPLE 6:**

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

**Please note the following further points:**

The words in **bold** in the mark scheme are important text that needs to be present, or some notion of it needs to be present. It does not have to be the exact word, but something close to the meaning.

If a word is underlined, this **exact** word must be present.

A single forward slash means this is an alternative word. A double forward slash means that this is an alternative mark point.

Ellipsis (...) on the end of one-mark point and the start of the next means that the candidate **cannot** get the second mark point without being awarded the first one. If a MP has ellipsis at the beginning, but there is no ellipsis on the MP before it, then this is just a follow-on sentence and **can** be awarded **without** the previous mark point.

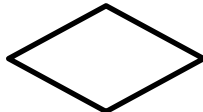
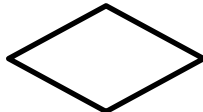
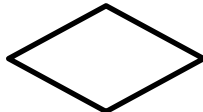
| Question         | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Marks    |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Section A</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |
| 1(a)             | <p>Array      <code>TrainUpPassengers // TrainUpPassengers []</code><br/> Data type   <code>Integer/int</code><br/> Use          storing the number of passengers on the train journeys up</p> <p>Many correct answers, this is an example.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>3</b> |
| 1(b)             | <p><b>One</b> mark for description, <b>one</b> mark for normal data and <b>one</b> mark for erroneous data for two checks</p> <p>Validation check   (type check) to check that the number entered is a <b>whole number / integer</b><br/> Normal data        34<br/> Erroneous data     two // 1.5</p> <p>Validation check   (range check) to check that the value of the number entered is between 1 <b>and</b> 80 / 480 inclusive<br/> Normal data        34<br/> Erroneous data     99 // 500</p> <p>Validation check   (presence check) to check that a value has been entered<br/> Normal data        34 // any data entered<br/> Erroneous data     "" // blank // no data entered</p> <p>Validation check   (length check) to check that a value has <b>3 digits or fewer</b> // between 1 and 3 digits<br/> Normal data        345<br/> Erroneous data     3456</p> <p>Many correct answers, the data are examples only.</p> | <b>6</b> |

| Question | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Marks |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1(c)     | <p>Any <b>six</b> from:</p> <p>MP1 Input number of tickets</p> <p>MP2 Input train up mountain <b>and</b> train down mountain</p> <p>MP3 Suitable prompts seen for inputs that are included</p> <p>MP4 Check that tickets are available on selected train(s)</p> <p>MP5 If available calculate price of tickets ...</p> <p>MP6 ... calculation includes discount if required</p> <p>MP7 Update total passengers / seats available for a train</p> <p>MP8 Update total passengers / seats available for up train <b>and</b> down train</p> <p>MP9 Update total cost for a train</p> <p>MP10 Update total cost for up train <b>and</b> down train</p> <p><b>Example answers</b></p> <pre> OUTPUT "How many tickets" INPUT NoTickets OUTPUT "Which Train up the mountain? 1, 2, 3 or 4" INPUT UpNumber OUTPUT "Which Train down the mountain? 1, 2, 3 or 4" INPUT DownNumber IF (DownNumber = 4 AND TrainUp[UpNumber] + NoTickets &lt;= 480 AND TrainDown[DownNumber] + NoTickets &lt;= 640) OR (TrainUp[UpNumber] + NoTickets &lt;= 480 AND TrainDown[DownNumber] + NoTickets &lt;= 480)   THEN     Cost ← (NoTickets - NoTickets DIV 10) * 50     TrainUp[UpNumber] ← TrainUp[UpNumber] + NoTickets     TrainDown[DownNumber] ← TrainUp[DownNumber] + NoTickets     TrainUpTotal[UpNumber] ← TrainUpTotal[UpNumber] + Cost / 2     TrainDownTotal[DownNumber] ← TrainDownTotal[DownNumber] + Cost / 2   ENDIF </pre> | 6     |

| Question | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Marks |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1(c)     | <pre> graph TD     Start([START]) --&gt; IO1[/OUTPUT "Tickets"<br/>INPUT Tickets/]     IO1 --&gt; IO2[/OUTPUT "Up Train"<br/>INPUT UpNo/]     IO2 --&gt; IO3[/OUTPUT "Down Train"<br/>INPUT DownNo/]     IO3 --&gt; Decision{Is Tickets &lt;= UpTickets[UpNo] AND<br/>Tickets &lt;= DownTickets[DownNo]?}     Decision -- Yes --&gt; Process1[Cost &lt;- (NoTickets - NoTickets DIV 10) * 50]     Decision -- No --&gt; Process2[TrainUp[UpNo] &lt;- TrainUp[UpNo] + NoTickets<br/>TrainDown[DownNo] &lt;- TrainUp[DownNo] + NoTickets<br/>TrainUpTotal[UpNo] &lt;- TrainUpTotal[UpNo] + Cost / 2<br/>TrainDownTotal[DownNo] &lt;- TrainDownTotal[DownNo] + Cost / 2]     Process1 --&gt; Process2     Process2 --&gt; End([END])     </pre> |       |

| Question | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Marks    |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1(d)     | <p>Explanation</p> <p>Any <b>five</b> from:</p> <p>MP1 How the program displayed the number of passengers for a journey ...</p> <p>MP2 ... how completed for all trains</p> <p>MP3 How the program displayed the amount of money taken for a journey ...</p> <p>MP4 ... how completed for all trains</p> <p>MP5 How the program calculated the total number of passengers</p> <p>MP6 How the program calculated the total money taken</p> <p>MP7 How the program attempted to select the train journey with the most passengers</p> <p>MP8 How the program attempted to dealt with more than one train being the most popular</p> <p>MP9 How the program displayed the results with suitable messages</p> <p>Programming statements must be given with each explanation.</p> | <b>5</b> |

| Question         | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Marks    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Section B</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |
| 2(a)             | <p>Any <b>six</b> from:</p> <p>MP1 Initialisation of large <b>and</b> small variables e.g. <code>Large ← 0 Small ← 1000</code></p> <p>MP2 Use of a loop for 500 entries // or 499 if initialisation done on first correct entry</p> <p>MP3 Input with prompt</p> <p>MP4 <b>Attempt</b> at checking the range of 1 to 999 for input</p> <p>MP5 ... working range check</p> <p>MP6 Checking for a whole number</p> <p>MP7 Selecting largest number</p> <p>MP8 Selecting smallest number</p> <p>MP9 Calculating the range</p> <p>MP10 Outputting the largest, smallest and range with message</p> <pre> Large ← 0 Small ← 1000 FOR Count ← 1 TO 500   REPEAT     OUTPUT "Enter a whole number between 1 and 999"     INPUT Number   UNTIL Number &gt;= 1 AND Number &lt; 1000 AND Number = Number DIV 1   IF Number &lt; Small     THEN       Small ← Number     ENDIF   IF Number &gt; Large     THEN       Large ← Number     ENDIF NEXT Range ← Large - Small OUTPUT "Largest number is ", Large, " Smallest number is ", Small, " Range of numbers is ", Range </pre> | <b>6</b> |

| Question             | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Marks                |                  |                |                                                                                     |                     |                                                                                     |                     |                                                                                      |   |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|----------------|-------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------|---|
| 2(b)                 | <p><b>One</b> mark for action required and <b>one</b> mark for method used</p> <p>Reduce the amount of numbers entered<br/>By decreasing the final value of the loop</p> <p>or</p> <p>Remove the need to input values<br/>By using random numbers / a previously populated array</p>                                                                                                                                                                                   | 2                    |                  |                |                                                                                     |                     |                                                                                     |                     |                                                                                      |   |
| 3(a)                 | <table><tr><th>Pseudocode statement</th><th>Flowchart symbol</th></tr><tr><td>IF Number = 20</td><td></td></tr><tr><td>PRINT Number</td><td></td></tr><tr><td>Number ← Number + 1</td><td></td></tr></table> | Pseudocode statement | Flowchart symbol | IF Number = 20 |  | PRINT Number        |  | Number ← Number + 1 |  | 3 |
| Pseudocode statement | Flowchart symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                  |                |                                                                                     |                     |                                                                                     |                     |                                                                                      |   |
| IF Number = 20       |                                                                                                                                                                                                                                                                                                                                                                                     |                      |                  |                |                                                                                     |                     |                                                                                     |                     |                                                                                      |   |
| PRINT Number         |                                                                                                                                                                                                                                                                                                                                                                                     |                      |                  |                |                                                                                     |                     |                                                                                     |                     |                                                                                      |   |
| Number ← Number + 1  |                                                                                                                                                                                                                                                                                                                                                                                    |                      |                  |                |                                                                                     |                     |                                                                                     |                     |                                                                                      |   |
| 3(b)                 | <table><tr><td>IF Number = 20</td><td>selection</td></tr><tr><td>PRINT Number</td><td>output</td></tr><tr><td>Number ← Number + 1</td><td>counting</td></tr></table>                                                                                                                                                                                                                                                                                                   | IF Number = 20       | selection        | PRINT Number   | output                                                                              | Number ← Number + 1 | counting                                                                            | 3                   |                                                                                      |   |
| IF Number = 20       | selection                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |                  |                |                                                                                     |                     |                                                                                     |                     |                                                                                      |   |
| PRINT Number         | output                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |                  |                |                                                                                     |                     |                                                                                     |                     |                                                                                      |   |
| Number ← Number + 1  | counting                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                  |                |                                                                                     |                     |                                                                                     |                     |                                                                                      |   |

| Question   | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Marks                   |                |        |  |  |                         |        |  |        |  |  |                         |        |  |        |  |  |                         |            |            |        |  |  |                         |          |          |        |  |  |                         |     |  |        |          |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------|--------|--|--|-------------------------|--------|--|--------|--|--|-------------------------|--------|--|--------|--|--|-------------------------|------------|------------|--------|--|--|-------------------------|----------|----------|--------|--|--|-------------------------|-----|--|--------|----------|
| 4(a)       | <p><b>One</b> mark for each correct column</p> <table> <tr> <th>Password</th><th>PasswordRepeat</th><th>OUTPUT</th></tr> <tr> <td></td><td></td><td>(Please enter password)</td></tr> <tr> <td>Secret</td><td></td><td>Reject</td></tr> <tr> <td></td><td></td><td>(Please enter password)</td></tr> <tr> <td>Secret</td><td></td><td>Reject</td></tr> <tr> <td></td><td></td><td>(Please enter password)</td></tr> <tr> <td>VerySecret</td><td>VerySecret</td><td>Accept</td></tr> <tr> <td></td><td></td><td>(Please enter password)</td></tr> <tr> <td>Pa55word</td><td>Pa55word</td><td>Accept</td></tr> <tr> <td></td><td></td><td>(Please enter password)</td></tr> <tr> <td>999</td><td></td><td>Reject</td></tr> </table> | Password                | PasswordRepeat | OUTPUT |  |  | (Please enter password) | Secret |  | Reject |  |  | (Please enter password) | Secret |  | Reject |  |  | (Please enter password) | VerySecret | VerySecret | Accept |  |  | (Please enter password) | Pa55word | Pa55word | Accept |  |  | (Please enter password) | 999 |  | Reject | <b>3</b> |
| Password   | PasswordRepeat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | OUTPUT                  |                |        |  |  |                         |        |  |        |  |  |                         |        |  |        |  |  |                         |            |            |        |  |  |                         |          |          |        |  |  |                         |     |  |        |          |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (Please enter password) |                |        |  |  |                         |        |  |        |  |  |                         |        |  |        |  |  |                         |            |            |        |  |  |                         |          |          |        |  |  |                         |     |  |        |          |
| Secret     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Reject                  |                |        |  |  |                         |        |  |        |  |  |                         |        |  |        |  |  |                         |            |            |        |  |  |                         |          |          |        |  |  |                         |     |  |        |          |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (Please enter password) |                |        |  |  |                         |        |  |        |  |  |                         |        |  |        |  |  |                         |            |            |        |  |  |                         |          |          |        |  |  |                         |     |  |        |          |
| Secret     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Reject                  |                |        |  |  |                         |        |  |        |  |  |                         |        |  |        |  |  |                         |            |            |        |  |  |                         |          |          |        |  |  |                         |     |  |        |          |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (Please enter password) |                |        |  |  |                         |        |  |        |  |  |                         |        |  |        |  |  |                         |            |            |        |  |  |                         |          |          |        |  |  |                         |     |  |        |          |
| VerySecret | VerySecret                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Accept                  |                |        |  |  |                         |        |  |        |  |  |                         |        |  |        |  |  |                         |            |            |        |  |  |                         |          |          |        |  |  |                         |     |  |        |          |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (Please enter password) |                |        |  |  |                         |        |  |        |  |  |                         |        |  |        |  |  |                         |            |            |        |  |  |                         |          |          |        |  |  |                         |     |  |        |          |
| Pa55word   | Pa55word                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Accept                  |                |        |  |  |                         |        |  |        |  |  |                         |        |  |        |  |  |                         |            |            |        |  |  |                         |          |          |        |  |  |                         |     |  |        |          |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (Please enter password) |                |        |  |  |                         |        |  |        |  |  |                         |        |  |        |  |  |                         |            |            |        |  |  |                         |          |          |        |  |  |                         |     |  |        |          |
| 999        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Reject                  |                |        |  |  |                         |        |  |        |  |  |                         |        |  |        |  |  |                         |            |            |        |  |  |                         |          |          |        |  |  |                         |     |  |        |          |

| Question | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Marks |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 4(b)     | <p>Any <b>four</b> from:</p> <ul style="list-style-type: none"> <li>• Position: before <code>INPUT PasswordRepeat</code> // at start</li> <li>• ...use a (variable) counter (for number of tries) <b>or</b> flag</li> <li>• ... initialise variable counter <b>or</b> flag</li> <li>• Position after <code>IF Length(Password) &gt;= 8 THEN</code> <b>or</b> after <code>INPUT PasswordRepeat</code></li> <li>• ... insert <code>REPEAT/WHILE/</code> (conditional) loop</li> <li>• Position after <code>OUTPUT "Reject"</code></li> <li>• ... add one to counter (for number of tries)</li> <li>• ... output a message "Try again"</li> <li>• ... add <code>INPUT PasswordRepeat</code></li> <li>• Position after <code>OUTPUT "Accept"</code></li> <li>• ... reset flag to show password matched</li> <li>• Position after <code>ENDIF</code></li> <li>• ... (insert <code>UNTIL/ENDWHILE</code>) to exit the loop after three tries <b>or</b> if the repeated password matches the original</li> </ul> | 4     |

| Question | Answer                                                                                                                                                                                                                                                                  | Marks |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 5(a)     | <p><b>One</b> mark for:</p> <ul style="list-style-type: none"> <li>• Use of <code>FOR</code> loop</li> <li>• Working loop with correct number of iterations</li> <li>• Correct assignment</li> </ul> <pre>FOR Count ← 1 TO 20   dataArray[Count] ← 0 NEXT (Count)</pre> | 3     |
| 5(b)     | <p>(A <code>FOR</code> loop has) a fixed number of repetitions //</p> <p>No need to manage the loop counter //</p> <p>no need to use another variable for the array index</p>                                                                                           | 1     |

| Question  | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Marks                               |                          |                                     |                          |      |       |       |       |       |       |       |  |  |  |  |       |                          |                                     |                          |                                     |           |           |       |  |  |     |  |  |  |  |      |       |        |            |      |          |       |       |       |       |       |       |       |  |  |  |  |  |       |                          |                                     |                          |                                     |                          |           |           |         |  |  |  |     |  |  |  |  |  |   |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|------|-------|-------|-------|-------|-------|-------|--|--|--|--|-------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|-----------|-----------|-------|--|--|-----|--|--|--|--|------|-------|--------|------------|------|----------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|-------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------|-----------|---------|--|--|--|-----|--|--|--|--|--|---|
| 6         | <p>Any <b>three</b> from:</p> <ul style="list-style-type: none"><li>• TABLE row not completed</li><li>• POSITION column not required // POSITION criteria not required</li><li>• No criteria set in the size column</li><li>• No criteria set in the flower column</li></ul> <div><div>Field:</div><table><tr><td>SIZE</td><td>PRICE</td><td>FLOWER</td><td>NUMBERSOLD</td><td>NAME</td></tr><tr><td>PLANT</td><td>PLANT</td><td>PLANT</td><td>PLANT</td><td>PLANT</td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Criteria:</td><td>= "small"</td><td>False</td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr></table></div> <p>OR</p> <div><div>Field:</div><table><tr><td>SIZE</td><td>PRICE</td><td>FLOWER</td><td>NUMBERSOLD</td><td>NAME</td><td>POSITION</td></tr><tr><td>PLANT</td><td>PLANT</td><td>PLANT</td><td>PLANT</td><td>PLANT</td><td>PLANT</td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td>= "small"</td><td>= False</td><td></td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td></tr></table></div> <p><b>One</b> mark for correct rows Field, Table and Show<br/><b>One</b> mark for correct Criteria row</p> | SIZE                                | PRICE                    | FLOWER                              | NUMBERSOLD               | NAME | PLANT | PLANT | PLANT | PLANT | PLANT | Sort: |  |  |  |  | Show: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Criteria: | = "small" | False |  |  | or: |  |  |  |  | SIZE | PRICE | FLOWER | NUMBERSOLD | NAME | POSITION | PLANT | PLANT | PLANT | PLANT | PLANT | PLANT | Sort: |  |  |  |  |  | Show: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Criteria: | = "small" | = False |  |  |  | or: |  |  |  |  |  | 5 |
| SIZE      | PRICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FLOWER                              | NUMBERSOLD               | NAME                                |                          |      |       |       |       |       |       |       |  |  |  |  |       |                          |                                     |                          |                                     |           |           |       |  |  |     |  |  |  |  |      |       |        |            |      |          |       |       |       |       |       |       |       |  |  |  |  |  |       |                          |                                     |                          |                                     |                          |           |           |         |  |  |  |     |  |  |  |  |  |   |
| PLANT     | PLANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PLANT                               | PLANT                    | PLANT                               |                          |      |       |       |       |       |       |       |  |  |  |  |       |                          |                                     |                          |                                     |           |           |       |  |  |     |  |  |  |  |      |       |        |            |      |          |       |       |       |       |       |       |       |  |  |  |  |  |       |                          |                                     |                          |                                     |                          |           |           |         |  |  |  |     |  |  |  |  |  |   |
| Sort:     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                          |                                     |                          |      |       |       |       |       |       |       |  |  |  |  |       |                          |                                     |                          |                                     |           |           |       |  |  |     |  |  |  |  |      |       |        |            |      |          |       |       |       |       |       |       |       |  |  |  |  |  |       |                          |                                     |                          |                                     |                          |           |           |         |  |  |  |     |  |  |  |  |  |   |
| Show:     | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                          |      |       |       |       |       |       |       |  |  |  |  |       |                          |                                     |                          |                                     |           |           |       |  |  |     |  |  |  |  |      |       |        |            |      |          |       |       |       |       |       |       |       |  |  |  |  |  |       |                          |                                     |                          |                                     |                          |           |           |         |  |  |  |     |  |  |  |  |  |   |
| Criteria: | = "small"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | False                               |                          |                                     |                          |      |       |       |       |       |       |       |  |  |  |  |       |                          |                                     |                          |                                     |           |           |       |  |  |     |  |  |  |  |      |       |        |            |      |          |       |       |       |       |       |       |       |  |  |  |  |  |       |                          |                                     |                          |                                     |                          |           |           |         |  |  |  |     |  |  |  |  |  |   |
| or:       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                          |                                     |                          |      |       |       |       |       |       |       |  |  |  |  |       |                          |                                     |                          |                                     |           |           |       |  |  |     |  |  |  |  |      |       |        |            |      |          |       |       |       |       |       |       |       |  |  |  |  |  |       |                          |                                     |                          |                                     |                          |           |           |         |  |  |  |     |  |  |  |  |  |   |
| SIZE      | PRICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FLOWER                              | NUMBERSOLD               | NAME                                | POSITION                 |      |       |       |       |       |       |       |  |  |  |  |       |                          |                                     |                          |                                     |           |           |       |  |  |     |  |  |  |  |      |       |        |            |      |          |       |       |       |       |       |       |       |  |  |  |  |  |       |                          |                                     |                          |                                     |                          |           |           |         |  |  |  |     |  |  |  |  |  |   |
| PLANT     | PLANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PLANT                               | PLANT                    | PLANT                               | PLANT                    |      |       |       |       |       |       |       |  |  |  |  |       |                          |                                     |                          |                                     |           |           |       |  |  |     |  |  |  |  |      |       |        |            |      |          |       |       |       |       |       |       |       |  |  |  |  |  |       |                          |                                     |                          |                                     |                          |           |           |         |  |  |  |     |  |  |  |  |  |   |
| Sort:     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                          |                                     |                          |      |       |       |       |       |       |       |  |  |  |  |       |                          |                                     |                          |                                     |           |           |       |  |  |     |  |  |  |  |      |       |        |            |      |          |       |       |       |       |       |       |       |  |  |  |  |  |       |                          |                                     |                          |                                     |                          |           |           |         |  |  |  |     |  |  |  |  |  |   |
| Show:     | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |      |       |       |       |       |       |       |  |  |  |  |       |                          |                                     |                          |                                     |           |           |       |  |  |     |  |  |  |  |      |       |        |            |      |          |       |       |       |       |       |       |       |  |  |  |  |  |       |                          |                                     |                          |                                     |                          |           |           |         |  |  |  |     |  |  |  |  |  |   |
| Criteria: | = "small"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | = False                             |                          |                                     |                          |      |       |       |       |       |       |       |  |  |  |  |       |                          |                                     |                          |                                     |           |           |       |  |  |     |  |  |  |  |      |       |        |            |      |          |       |       |       |       |       |       |       |  |  |  |  |  |       |                          |                                     |                          |                                     |                          |           |           |         |  |  |  |     |  |  |  |  |  |   |
| or:       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                          |                                     |                          |      |       |       |       |       |       |       |  |  |  |  |       |                          |                                     |                          |                                     |           |           |       |  |  |     |  |  |  |  |      |       |        |            |      |          |       |       |       |       |       |       |       |  |  |  |  |  |       |                          |                                     |                          |                                     |                          |           |           |         |  |  |  |     |  |  |  |  |  |   |