

Cambridge IGCSE™ (9-1)

INFORMATION & COMMUNICATION TECHNOLOGY

0983/03

Paper 3 Data Analysis and Website Authoring

October/November 2021

MARK SCHEME

Maximum Mark: 80

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 October/November 2021 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

This document consists of **10** printed pages.

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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:

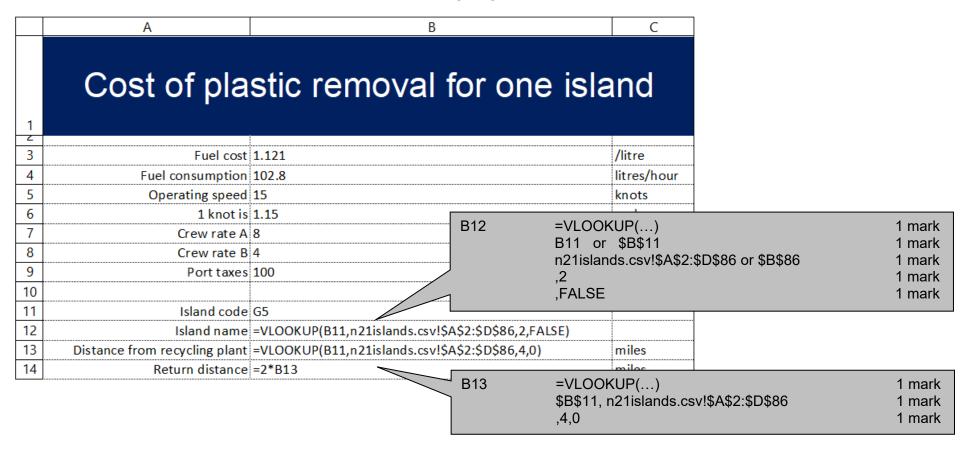
Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

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.

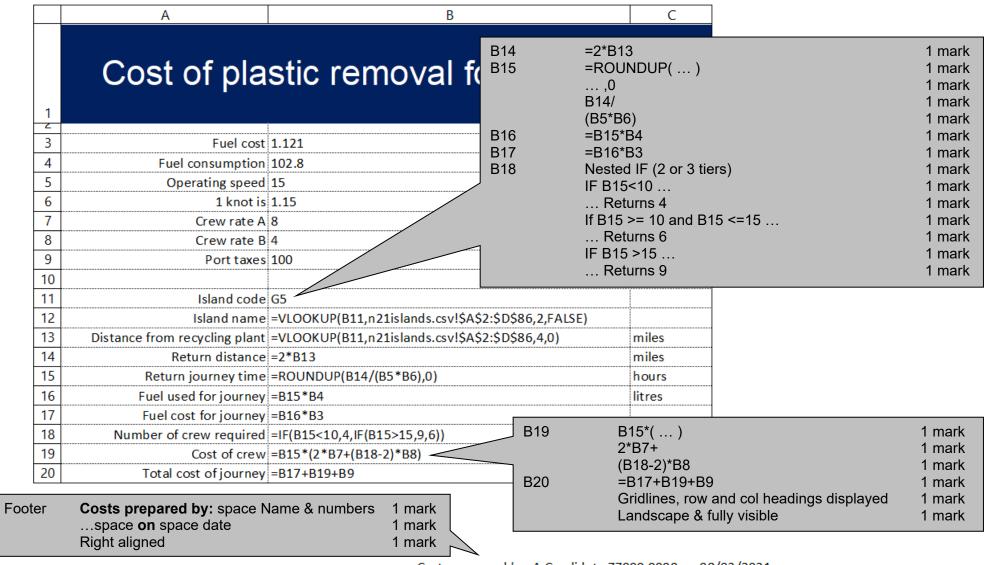
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Costs prepared by: A Candidate ZZ999 9999 on 08/03/2021

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Cost of plastic removal for one island

Fuel cost \$1.12 /litre Fuel consumption 102.8 litres/hour 15 knots Operating speed 1 knot is 1.15 mph Crew rate A \$8.00 \$ per hour Crew rate B \$4.00 \$ per hour \$100.00 Port taxes

Island code M1

Island name Boahuraa

Distance from recycling plant 75 miles Return distance 150 miles Return journey time 9 hours Fuel used for journey 925.2 litres Fuel cost for journey \$1,037.15 Number of crew required

> Cost of crew \$216.00 Total cost of journey \$1,353.15

Inserted	1 mark
Cost of plastic removal for one island	1 mark
Cells A1:C1 merged and centre aligned	1 mark
All text wrapped on only 2 lines	1 mark
26 point	1 mark
White sans-serif font	1 mark
Dark blue background	1 mark
Half height of row 3	1 mark
Right aligned	1 mark
Cells B3,B9,B17,B19,B20 as \$ with 2dp	1 mark
Single portrait page and fully visible	1 mark
No gridlines, row and col headings	1 mark
	Cost of plastic removal for one island Cells A1:C1 merged and centre aligned All text wrapped on only 2 lines 26 point White sans-serif font Dark blue background Half height of row 3 Right aligned Cells B3,B9,B17,B19,B20 as \$ with 2dp Single portrait page and fully visible

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Cost of plastic removal for one island

Fuel cost \$1.12 /litre
Fuel consumption 102.8 litres/hour
Operating speed 15 knots
1 knot is 1.15 mph
Crew rate A \$8.00 \$ per hour
Crew rate B \$4.00 \$ per hour

Port taxes \$100.00

Island code G5

Island name Viligillaa

Distance from recycling plant 220 miles

Return distance 440 miles
Return journey time 26 hours
Fuel used for journey 2672.8 litres

Fuel cost for journey \$2,996.21

Number of crew required 9

Cost of crew \$1,144.00

Total cost of journey \$4,240.21

Modelling Island code set to G5

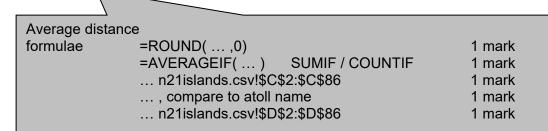
1 mark

With correct results 1 mark Single portrait page no row and column headings, fully vis 1 mark

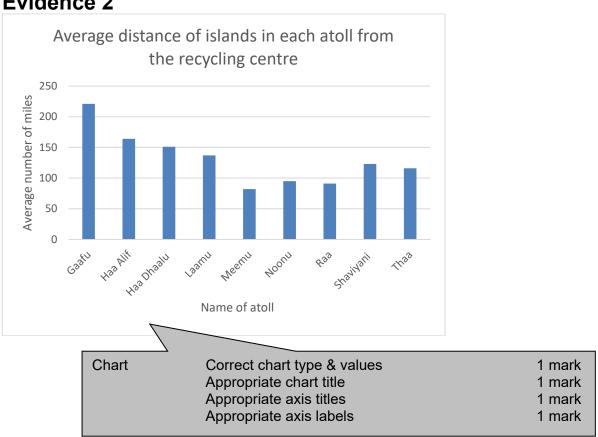
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Evidence 1

	A	В
1	Atoll	Average distance
2	Gaafu	=ROUND(AVERAGEIF(n21 islands.csv!\$C\$2:\$C\$86,A2,n21 islands.csv!\$D\$2:\$D\$86),0)
3	Haa Alif	=ROUND(AVERAGEIF(n21islands.csv!\$C\$2:\$C\$86,A3,n21islands.csv!\$D\$2:\$D\$86),0)
4	Haa Dhaalu	=ROUND(A VERAGEIF (n21 islands.csv!\$C\$2:\$C\$86,A4,n21 islands.csv!\$D\$2:\$D\$86),0)
5	Laamu	=ROUND(AVERAGEIF(n21islands.csv!\$C\$2:\$C\$86,A5,n21islands.csv!\$D\$2:\$D\$86),0)
6	Meemu	=ROUND(AVERAGEIF(n21islands.csv!\$C\$2:\$C\$86,A6,n21islands.csv!\$D\$2:\$D\$86),0)
7	Noonu	=ROUND(AVERAGEIF(n21islands.csv!\$C\$2:\$C\$86,A7,n21islands.csv!\$D\$2:\$D\$86),0)
8	Raa	=ROUND(A VERAGEIF (n21 islands.csv!\$C\$2:\$C\$86,A8,n21 islands.csv!\$D\$2:\$D\$86),0)
9	Shaviyani	=ROUND(AVERAGEIF(n21islands.csv!\$C\$2:\$C\$86,A9,n21islands.csv!\$D\$2:\$D\$86),0)
10	Thaa	=ROUND(AVERAGEIF(n21islands.csv!\$C\$2:\$C\$86,A10,n21islands.csv!\$D\$2:\$D\$86),0)



Evidence 2

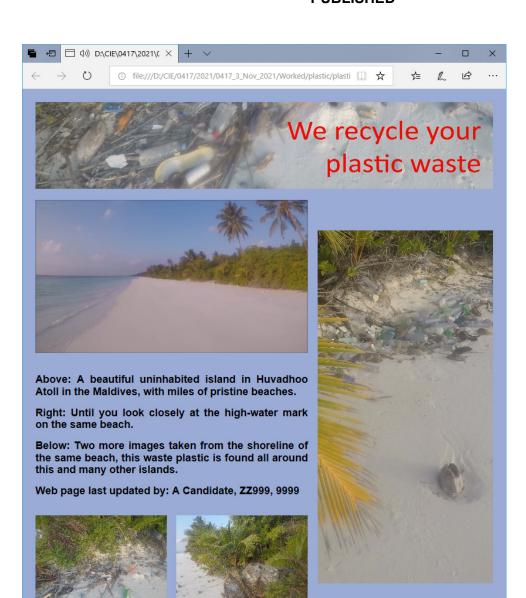


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Evidence 3

```
<!DOCTYPE html>
<html>
 <head>
 <link rel="stylesheet" type="text/css" href="n21plastic.css">
 </head>
                    Stylesheet
                                n21plastic.css attached
                                                           1 mark
 <body>
  Table
                                width=100%
                                                           1 mark
                    Row 1
                                height=15%
                                                           1 mark
                                colspan=3
                                                           1 mark
   <img src="n21banner.jpg" alt="Banner with the title for the webpage"</pre>
style="width:100%" />
    <video width="100%" autoplay loop>
       <source src="n21beach.mp4" type="video/mp4">
        Your browser does not support this video file type.
      </video>
    width: 60%
                                                        1 mark
                 Row 2
                             height: 45%
                                                        1 mark
                             video <...> tag used ...
                                                        1 mark
                             ... width="100%"
                                                        1 mark
                             src="n21beach.mp4"
                                                        1 mark
                             Appropriate error message
                                                        1 mark
                             </video>
                                                        1 mark
    <img src="n21bottles.jpg" alt="Image of bottle on the beach"</pre>
style="width:100%" />
    Rows 2 & 3 left colspan="2"
   1 mark
                 Row 2 right
                             rowspan="3"
                                                        1 mark
                 Row 3
                             height:20%
                                                        1 mark
    <h2>Above: A beautiful uninhabited island in Huvadhoo Atoll in the
Maldives, with miles of pristine beaches.</h2>
      <h2>Right: Until you look closely at the high-water mark on the
same beach.</h2>
      <h2>Below: Two more images taken from the shoreline of the same
beach, this waste plastic is found all around this and many other
islands.</h2>
      <h2>Web page la
                     Row 4 both cells width:30%
                                                           1 mark
    1 mark
   style="width:100%" of all 4 still images 1 mark
                     Images
```

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In browser, with address bar, and no letters vis	1 mark
No borders/gridlines visible	1 mark
In correct cell	1 mark
Text from source file as 3 paragraphs	1 mark
Web page last updated by: A Cand ZZ999 9999	1 mark
In style h2	1 mark
Correct still images in correct cells	1 mark
Aspect ratio of all still images maintained	1 mark
	In correct cell Text from source file as 3 paragraphs Web page last updated by: A Cand ZZ999 9999 In style h2

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