Functional Skills Mathematics (4748)  
Entry 2 Sample Assessment

Candidate’s paper – Non-calculator  
Holidays

Time allowed – 25 minutes

Marks: 9

Name: ____________________________________

City & Guilds Enrolment Number: ____________

Date of registration: ____________________________

Date of assessment: ____________________________

You will need
• a pen with black or blue ink
• a pencil
• a rubber
• a ruler.

You must not use a calculator.

Instructions
• Read each question carefully.
• Answer all the questions.

Candidate’s declaration:
I confirm that this assessment is my own work.

Candidate’s signature ____________________________

Date ____________________________
Non-calculator paper

There are 9 marks available.

You must not use a calculator.
Q1: What number comes next in this list?

92 94 96 98 ...... 1 mark

Q2: What is 63 divided by 9?

1 mark

Q3: Choose the correct sign to finish the calculation and fill in the box.

80 [ ] 30 = 50

= + − × ÷ 1 mark

Q4: Tick all the white squares.

1 mark
Q5  A flight attendant does this calculation.

\[
\begin{array}{cccccc}
87 & + & 39 & + & 52 & = & 178 \\
\end{array}
\]

Round the numbers the flight attendant added to the nearest 10 to check the answer is about right.

\[
\begin{array}{cccccc}
\text{ } & + & \text{ } & + & \text{ } & = & \text{ }
\end{array}
\]

1 mark

Q6  Count these crosses.

\[
\begin{array}{cccccccc}
X & X & X & X & X & X & X & X \\
X & X & X & X & X & X & X & X \\
X & X & X & X & X & X & X & X \\
X & X & X & X & X & X & X & X \\
X & X & X & X & X & X & X & X \\
\end{array}
\]

How many crosses (X) are there?

1 mark
Q7  This bar chart shows the number of flights from an airport last week.

![Bar Chart]

Which day had the largest number of flights?  

Which day had the largest number of flights?  

Which day had the largest number of flights?  

Which day had the largest number of flights?  

1 mark

Q8  A passenger wants to take these things on a plane.

![Objects]

Tick all of the things that are less than 100 ml.

1 mark
Q9 A man lives 10 kilometres from work.

He works 4.5 kilometres from the airport.

He drives from his house to work. Then he drives to the airport. How far does the man drive in total?

................................................................. kilometres

1 mark

Total marks: 9

End of non-calculator paper.
You will need
- a calculator
- a pen with black or blue ink
- a pencil
- a rubber
- a ruler.

Instructions
- Read each question carefully.
- Answer all the questions.

Candidate’s declaration:
I confirm that this assessment is my own work.

Candidate’s signature ________________________________

Date ________________________________
Calculator paper

There are 27 marks available.

You may use a calculator.
Q1  How many hours are in one day?  

…………………………………………………………

Q2  How many edges does a square based pyramid have?  

A. 4  
B. 5  
C. 6  
D. 8  

1 mark

Q3  What fraction of the rectangle is coloured in grey?  

…………………………………………………………

1 mark
Q4  The weather forecast for the **UK** next week is **21 °C** every day. Here is the weather forecast for Spain next week.

<table>
<thead>
<tr>
<th>Weather forecast for Spain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>23°C</td>
</tr>
</tbody>
</table>

a  Which days will be warmer in Spain than in the UK? Tick all those days.  

b  A travel agent needs a chart to show the temperatures of the warmest day and coldest day in Spain next week.  

Draw **two** bars to finish the bar chart.
Q5 This diagram shows the maximum measurements for hand luggage that you are allowed to check-in on a plane.

It is a box, shaped like a cuboid, with sides and a base, but no top.

![Check-in luggage measurements allowed diagram]

a What shape is the base of the box?

........................................................................................................... 1 mark

b What is the length of the largest side? Give units with your answer.

........................................................................................................... 1 mark
A man wants a new case to take on the plane.

The case is in the sale.
In the sale, all cases are half the price shown.

£36

What is the price of the case in the sale?

Show your working out.

…………………………………………………………………………………………………………………………

Sale price £ ………………………………………………………………………………… 2 marks
b How much money does he have altogether?

Show your working out.

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

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

Amount of money £ ................................................................. 2 marks

c The man buys a bag and a wallet instead.
This bag costs £24 and the wallet costs £7.

How much money will he have left? Give units with your answer.

Show your working out.

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

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

Money left ................................................................. 3 marks
Q7 A passenger checks the weight of her suitcase.

This table shows how much it costs to take a suitcase on a plane.

<table>
<thead>
<tr>
<th>Weight of suitcase</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 10 kg</td>
<td>£5</td>
</tr>
<tr>
<td>10 kg to 20 kg</td>
<td>£15</td>
</tr>
<tr>
<td>over 20 kg to 30 kg</td>
<td>£25</td>
</tr>
<tr>
<td>over 30 kg</td>
<td>£35</td>
</tr>
</tbody>
</table>

a How much does the passenger’s suitcase weigh to the nearest kilogram?

................................................. kg 1 mark

b How much will it cost to take the suitcase on the plane?

Cost £ ................................................................. 1 mark

c Give a reason for your answer.

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

............................................................................................ 1 mark
Q8  A passenger’s flight leaves at **twelve o’clock**.
He checks his watch.

\[\text{\includegraphics{clock.png}}\]

a  Has his plane left?

Write down how you got your answer.

1 mark

His flight leaves from Gate 105. This sign shows the Gates at the airport.

\[\text{\includegraphics{airport_diagram.png}}\]

b  In which terminal is **Gate 105**?

\[\text{Terminal \ldots \ldots \ldots \ldots \ldots \ldots} \quad 1 \text{ mark}\]

c  Write down how to get to **Gate 105**.

\[\text{\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots} \quad 1 \text{ mark}\]
Q9 A customer wants to know the cost to fly to Glasgow. She finds these ticket prices on an airline’s website.

<table>
<thead>
<tr>
<th>Ticket prices</th>
</tr>
</thead>
<tbody>
<tr>
<td>8am flight</td>
</tr>
<tr>
<td>2pm flight</td>
</tr>
<tr>
<td>10pm flight</td>
</tr>
</tbody>
</table>

**Suitcase**

- £56

**Extras**

- Choose seat, Board first, One extra bag **All £12 each**

The customer wants the **cheapest** priced ticket. She wants to take a suitcase, choose her seat, board first and take an extra bag.

**a** How much will the customer pay?

Show your working out.

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

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

Amount to pay £ \[\text{___________}\] 2 marks

The woman thinks it is cheaper to travel by train. She finds these prices

<table>
<thead>
<tr>
<th>Train prices to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dundee</td>
</tr>
<tr>
<td>Edinburgh</td>
</tr>
<tr>
<td>Glasgow</td>
</tr>
</tbody>
</table>

**b** Is the woman correct? Use numbers to explain your answer.

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

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

1 mark

**Total marks: 27**

End of calculator paper.
Mark scheme and assessment record

HOLIDAYS
**Assessor notes for marking**

The assessor must mark the assessment according to the mark scheme.

- Apply the mark scheme methodically.
- Initially apply the **unshaded** section for each question.
- If this is not achieved, work down the shaded rows until you find the appropriate mark.
- If none of the shaded sections are met then award 0 for that part of the mark scheme.

Marks should always be awarded for correct answers whether numbers are written as words or figures, unless otherwise stated by the question paper or mark scheme.

Assessors must not penalise incorrect spelling.

Units or numbers shown in brackets on the mark scheme are not required for the awarding of mark/s on the candidate’s paper.

The candidate’s marks from each paper must be added together to get the final mark. The pass mark for the assessment is 19.

The assessment record must be completed for each candidate.

**Entry 2 Holidays - mark scheme and assessment record**

**Candidate name:**

<table>
<thead>
<tr>
<th></th>
<th>Non-calculator paper</th>
<th>SCS</th>
<th>Marks</th>
<th>Candidate Mark</th>
<th>Assessor feedback/comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>7</td>
<td>8</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>— sign chosen (this mark is for recognition of the symbol, so as long as the symbol is indicated the mark can be awarded, even if not filled in the box in the calculation above)</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>the three white squares only indicated (all three required)</td>
<td>24</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>90 AND 40 AND 50 AND 180</td>
<td>9</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>36</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Thursday</td>
<td>23</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accept common abbreviations eg Thurs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>toothpaste and perfume only indicated (both required)</td>
<td>16</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>14.5</td>
<td>11</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total marks available for non-calculator paper</strong></td>
<td><strong>9</strong></td>
<td><strong>9</strong></td>
<td><strong>9</strong></td>
<td><strong>9</strong></td>
<td><strong>9</strong></td>
</tr>
<tr>
<td></td>
<td>Calculator paper</td>
<td>SCS</td>
<td>Marks</td>
<td>Candidate Mark</td>
<td>Assessor feedback/ comments</td>
</tr>
<tr>
<td>---</td>
<td>------------------</td>
<td>-----</td>
<td>-------</td>
<td>----------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>1</td>
<td>24</td>
<td>7</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>D or 8</td>
<td>20</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 3 | \(\frac{1}{10}\) or a tenth  
Do not accept 10 | 10  | 1     |                |                             |
| 4a | Mon / 23, Tues / 22, Fri / 24, Sat / 26, Sun / 25  
only indicated (all required) | 17, 22 | 2     |                | (1)                          |
| 4b | one bar drawn to 26 \(\pm \frac{1}{4}\) square  
bar drawn to 25 \(\pm \frac{1}{4}\) square (ie highest missed)  
one bar drawn to 19 \(\pm \frac{1}{4}\) square  
bar drawn to 26 \(\pm \frac{1}{4}\) square (ie lowest missed) | 17, 25 | 2     | (1)                  | (1)                        |
| 5a | rectangle        | 19  | 1     |                |                             |
| 5b | 90 cm or centimetres, with units | 14  | 1     |                |                             |
| 6a | (\(\£\))18  
OR a correct method to find a half eg \(\div 2\) | 8, 10 | 2     |               | (1)                          |
| 6b | (\(\£\))40 for total cash  
OR a correct method for finding the total  
eg 10 \(\times 3 + 2 \times 5\) | 6    | 2     |               | (1)                          |
| 6c | (\(\£\))9  
OR (\(\£\))31 for total for bag and wallet  
OR (\(\£\))16 for remainder after bag  
OR(\(\£\))33 for remainder after wallet  
OR a correct method for finding change from \(\£\)40  
eg 40 – 24 – 7  
correct units ie \(\£\) accept pounds | 12  | 2     |               | (1)                          |
| 7a | 27 (kg) | 18  | 1     |                |                             |
| 7b | (\(\£\))25 | 15  | 1     |                |                             |
| 7c | explanation referring to 27kg is more than 20kg and less than 30kg or similar  
Follow through their weight from 7a | 2    | 1     |                |                             |
| 8a | ‘No’  
and comment relating to the clock showing it is only quarter to 12 or 11:45 or equivalent | 13  | 1     |                |                             |
| 8b | B | 2    | 1     |                |                             |
| 8c | clear explanation of how to get to Gate 105  
eg Go past the café and Gate 105 will be the next right  
or eg The gates are first on the right after passing gates 1-58 on the left | 21  | 1     |                |                             |
| 9a | (\(\£\))178  
(\(\£\))36 for extras | 5    | 2     |               | (1)                          |
OR (£)181 or (£)187 for total cost from not choosing cheapest ticket

9b yes and valid comparison with number/s eg plane is (£)178 and train is (£)168 eg train is only (£)168 eg train is (£)10 cheaper
Follow through their price from 9a

Total marks available calculator paper 27

| Candidate mark for non-calculator paper | / 9 |
| Candidate mark for calculator paper   | / 27 |
| Candidate total mark                  | / 36 |

Total marks available: 36 Pass mark: 19

PRINT Assessor name: Signature: Date:

PRINT IQA’s Name: (if sampled) Signature: Date:

Please indicate as applicable:

- Candidate has achieved □
- Candidate has not achieved □