Functional Skills Mathematics (4748)
Entry 3 Sample Assessment

Candidate’s paper – Non-calculator
At the Airport

Time allowed – 25 minutes

Marks: 10

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 may use a dictionary.

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 10 marks available.

You must not use a calculator.
Q1 Work out 29 x 15 =

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

Q2 642 ÷ 12 =

............... remainder ............ 1 mark

Q3 Tick all the shapes below that have at least one right angle.

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

Q4 A man is facing North. He turns a three-quarter turn clockwise.

In which direction is he facing now?

........................................................................................................ 1 mark
Q5 What is the next number in this sequence?

13.9  14.8  15.7  ..........  

1 mark

Q6 Round 946 to the nearest ten.


1 mark

Q7 Which of these is the highest number? 
Tick your answer.

A  928.3 
B  928.27 
C  928.79 
D  928.8 

1 mark
Q8  A supervisor counts the number of departures from an airport in one morning.

These are the results.

<table>
<thead>
<tr>
<th>Airport</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belfast</td>
<td>7</td>
</tr>
<tr>
<td>Cardiff</td>
<td>5</td>
</tr>
<tr>
<td>Glasgow</td>
<td>7</td>
</tr>
<tr>
<td>Madrid</td>
<td></td>
</tr>
<tr>
<td>Paris</td>
<td></td>
</tr>
</tbody>
</table>

Complete the frequency table. 1 mark

Q9  A holiday maker wants a bag to take on a plane.
The maximum width for a bag to take on board a plane is 350mm.

Which of these bags could be taken on board? Tick the bags. 1 mark
Q10  This line graph shows the temperatures in Barcelona last year.

A holiday maker wants to go to Barcelona when the temperature is between 60°F and 70°F.

In which months should the holidaymaker go to Barcelona?

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

1 mark

Total marks: 10

End of non-calculator paper
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Functional Skills Mathematics (4748)  
Entry 3 Sample Assessment

Candidate’s paper – Calculator allowed  
At the Airport

Time allowed – 65 minutes

Marks: 30

Name: ________________________________

City & Guilds Enrolment Number: _____________

Date of registration: _______________________

Date of assessment: ________________________

You will need

- a calculator
- a pen with black or blue ink
- a pencil
- a rubber
- a ruler.

You may use a dictionary.

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 **30** marks available.

You may use a calculator.
Q1 What is £967.39 rounded to the nearest 10p?


Q2 What could a person use to measure their waist?


Q3 What is the next number in this sequence?

38 57 76 ............

1 mark
Q4  A man wants to go on holiday to Spain. He sees these holiday prices. He wants the cheapest holiday.

**SUNSHINE HOLIDAYS**

<table>
<thead>
<tr>
<th>SPAIN</th>
<th>Come to Spain</th>
<th>Spain Sun, Sea and sand</th>
<th>Only £499</th>
</tr>
</thead>
<tbody>
<tr>
<td>£562</td>
<td>£397</td>
<td>£522</td>
<td></td>
</tr>
</tbody>
</table>

He uses these vouchers to pay towards the cost of the holiday.

Sunshine Holidays £25

Sunshine Holidays £25

Sunshine Holidays £10

Sunshine Holidays £25

Sunshine Holidays £10

Sunshine Holidays £10

How much money does he need to pay?

Show your working out

£................ money to pay

3 marks
Q5  The man wants to know if it is cheaper to go to the airport by train or by car.

A return train ticket to the airport is £69

There is \( \frac{1}{3} \) off the price when the ticket is bought in advance.

a  What will the price of the ticket be if he buys it in advance?

Show your working out

\[ £ \underline{\hspace{2cm}} \]

3 marks

It is 78 miles **to and from** the airport.
The man’s car costs 32p per mile to run.

b  What is the cost to drive to and from the airport?

*Give units with your answer.*

Show your working out

\[ \text{Cost } \underline{\hspace{2cm}} \]

2 marks
The man says if he goes by car he will pay to park his car in **Car Park 5**.

The car park costs are shown in this table.

<table>
<thead>
<tr>
<th>Car Park</th>
<th>Time to airport</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 minute walk</td>
<td>£54.53</td>
</tr>
<tr>
<td>2 &amp; 3</td>
<td>1 - 3 minute walk</td>
<td>£48.97</td>
</tr>
<tr>
<td>4</td>
<td>3 - 5 minute walk</td>
<td>£44.43</td>
</tr>
<tr>
<td>5</td>
<td>5 - 10 minute walk</td>
<td>£38.87</td>
</tr>
<tr>
<td>6 &amp; 7</td>
<td>5 - 10 minute bus ride</td>
<td>£21.20</td>
</tr>
</tbody>
</table>

The man wants to drive to and from the airport and park his car for a week.

c

What will the cost be?

Show your working out

Cost £___________

2 marks

Compare the costs of the two ways to travel.

d

Which is cheaper?

Tick one.

Train  

Car  

1 mark
**Q6** A holidaymaker wants to take hand luggage on a plane.

Her bag is 32cm wide and 18 cm deep. She measures the height of her bag.

She checks the size of hand luggage. She finds this information.

![Maximum size for hand luggage](image)

**Maximum size for hand luggage**

- Height: 55cm
- Width: 35cm
- Depth: 20cm

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**a** Can she take her bag on the plane? Explain your answer using measurements.

Yes / No .................

Reason

---

2 marks
She wants to send her suitcase with a luggage company. She weighs her suitcase.

<table>
<thead>
<tr>
<th>Luggage Company Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>Price</td>
</tr>
</tbody>
</table>

b What will the luggage company charge?

Show your working

£……………….  

2 marks
Q7 A woman goes to the airport in the morning to collect her friend. The clock shows when the plane was due to land.

The plane is delayed by 3 hours and 10 minutes.

What time is the plane due?

Show your working out

2 marks
Q8 The airport has a duty free shop. An assistant in the shop has been asked to arrange items on display. She puts the biscuit boxes in order of weight.

a Which order should the biscuits be on the shelf? Start with the smallest weight.

1 mark

The shop sells bottles of water in the following sizes.

500ml, 1 litre, 330ml and 750ml

A customer wants the bottle which holds the most water.

b What size bottle should she choose?

1 mark
Q9 The sales manager needs to draw a bar chart to show how satisfied customers are with the service at the airport

<table>
<thead>
<tr>
<th>Satisfaction</th>
<th>Number of customers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not satisfied</td>
<td>150</td>
</tr>
<tr>
<td>Satisfied</td>
<td>300</td>
</tr>
<tr>
<td>Very satisfied</td>
<td>450</td>
</tr>
</tbody>
</table>

Draw a bar chart to show this information.

Put labels on your graph.

3 marks
Q10  The airport has a café.  
Here is the menu.

![The Airport Café menu](image)

A customer orders three cups of coffee, a cheese salad and two sausage rolls.

a  How much will the customer pay?  
Give units with your answer.

Show your working out

The customer will pay ________________

3 marks
b Use approximation to check your answer.

Write your check here

The customer is given this ticket.

Order
964

She will collect her food when her order number is called.

The café is currently serving order 949.

c How many orders will they serve before the customer’s food is ready?

Show your working out

____________ orders

1 mark

Total marks: 30

End of calculator paper
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Functional Skills Mathematics (4748)
Entry 3 Sample Assessment

Mark scheme and Assessment record

At the Airport
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, numbers or words 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 21.

The assessment record must be completed for each candidate.

Entry 3 At the Airport – mark scheme and assessor record

Candidate name: ________________________________

<table>
<thead>
<tr>
<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>1 435</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 53 remainder 6</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>accept 53.5 or 53 ½</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>if working shown</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 triangle and square only indicated</td>
<td>19</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(both required)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 west</td>
<td>20</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 16.6</td>
<td>9</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 950</td>
<td>5</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 D 928.8</td>
<td>8</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 Madrid 5</td>
<td>21</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paris 6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 255mm and 345mm only indicated.</td>
<td>15</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 May, June, October</td>
<td>22</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total marks available for non-calculator paper</strong></td>
<td><strong>10</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<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>
</tr>
<tr>
<td>1 [£967.40]</td>
<td>11</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 [t=95]</td>
<td>6</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 [(£)292 for money to pay] OR a correct method for finding total of vouchers eg 3 x 25 and 3 x 10 ((£)397 seen for cheapest holiday]</td>
<td>2</td>
<td>(1, 2, 4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5a [(£)46]</td>
<td>7</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5b [(£)24.96, (£)24.96p or (£)2496(p)]</td>
<td>4, 10</td>
<td>(2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5c [(£)63.83 (for total cost) follow through their car park cost and their 5b ((£)38.87 (for Car Park 5 cost)]</td>
<td>10, 21</td>
<td>(2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5d Train follow through 5a and 5c</td>
<td>22</td>
<td>(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6a yes and valid reason including figures eg her bag is 47(cm) or accept any measurement that rounds to 47(cm) which is less than 55(cm) and 32(cm) is less than 35(cm) and 18(cm) is less than 20(cm)</td>
<td>14, 21</td>
<td>(2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6b [(£)37.20]</td>
<td>16</td>
<td>(2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 [1:15 pm or 13:15]</td>
<td>12, 13</td>
<td>(2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8a B C D A</td>
<td>16</td>
<td>(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8b 1 l(itre) with unit</td>
<td>17</td>
<td>(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 bar chart with three bars (drawn any height) and bar labels to show the three satisfaction ratings linear scale on vertical axis starting at 0 and going to at least 450 three correct bar heights ± (\frac{1}{4}) square</td>
<td>23</td>
<td>(1)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 10a | £21.82 with units  
£21.82p ie incorrect units  
21.82 without units  
accept 2182p with units  
13.47 for coffee  
OR a correct method for total  
eg 3 x 4.49 + 4.55 + 2 x 1.90 seen | 10,21 | 3 | (2) |
| 10b | a check by approximation  
eg 3 x 4.50 + 4.50 + 2 x 2 = 22 | Check | 1 |
| 10c | 15 (orders)  
accept 14 or 16 (orders) | 2 | 1 |
| **Total marks available for calculator paper** | 30 |

| Candidate mark for non-calculator paper | / 10 |
| Candidate mark for calculator paper | / 30 |
| Candidate total mark | / 40 |
| **Total marks available**: 40 | **Pass mark**: 21 |

**PRINT Assessor name**: Signature: Date:

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

**Please indicate as applicable**

- **Candidate has achieved**: □
- **Candidate has not achieved**: □