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 $45 \times 8 =$

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

Q2

Write these numbers in order. Start with the smallest.

$468 \quad 160 \quad 950 \quad 250 \quad 775$

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

Q3

$975 \div 30 =$

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

Q4

Which of these amounts is the largest?

A 500ml
B 1 litre
C 800ml
D 250ml 1 mark
Q5  What is the next number in this sequence?

50.4  60.5  70.6  _____  1 mark

Q6  Which one of these measuring instruments is best to measure the width of a door?
Tick one.

A  B  C  D  1 mark

Q7  Tick all the shapes that have more than one right angle.

1 mark
Q8 A farmer collects sacks of cattle feed from a supplier.

She needs to bring home as many of the sacks as she can in her truck.

Her truck holds 900kg in weight.

What number of sacks can she collect?

Space for working

…………………………. 

……………………….. sacks

1 mark

Q9 An assistant in a farm shop counts the number of ice lollies in the freezer at the end of the day. There are 108.

At the start of the day there were 250 ice lollies.

What number of ice lollies were sold?

Space for working

………………………….

………………………… ice lollies

1 mark
Q10  A farmer makes a note of the weights of his new-born lambs.

These are the results.

<table>
<thead>
<tr>
<th>Weight</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>2kg</td>
<td>7</td>
</tr>
<tr>
<td>3kg</td>
<td>9</td>
</tr>
<tr>
<td>4kg</td>
<td></td>
</tr>
<tr>
<td>5kg</td>
<td></td>
</tr>
</tbody>
</table>

Complete the frequency table.  

1 mark

Total marks: 10

End of non-calculator paper
This page is intentionally blank
Candidate’s paper – Calculator allowed
On the Farm

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 the next number in this sequence?

21  36  51  66  _____  1 mark

Q2 Write these numbers in order. Start with the smallest.

1.96  1.54  0.87  6.80  4.43

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

Q3 Round 746 to the nearest 10

................................................................. 1 mark
Q4  A farmer has **12 dairy cows**. 
Each cow gives **29 litres** of milk a day.

She wants to know how much milk she will get from all of the cows.

a  What amount of milk will she get each day?

Space for working out

……………………… litres  

b  Use approximation to check your answer.

Show your check here
Q5 A farmer gets this order from a local shop.
She needs to work out how much milk she needs.

Two pots of yogurt can be made from 1 litre of milk.

What amount of milk will she need? Give units with your answer.

Show your working out.

Amount of milk……………………… 2 marks

Q6 Yogurt is made in the farm dairy.
It takes seven hours and thirty minutes to make.

The dairy assistant begins to make the yogurt at 9am.
The farmer needs to know what time the yogurt will be ready.

a What time will the dairy assistant tell her? Use am or pm in your answer.

Space for working out.

Time ………………………… 1 mark
To make the yogurt, the assistant heats the yogurt to this temperature.

![Thermometer Image]

The temperature has to be cooled down by 35° C before the yogurt can be stored in the fridge.

b Which of these thermometers shows the temperature the yogurt can be stored in the fridge? Tick one.

Space for working out

![Thermometer Images]

A  B  C  D

2 marks
The shop sells the yogurt in cartons. The cartons are sold in these different sizes 450g, 1kg, 500g and 350g.

A customer asks the shop assistant for the carton that holds the most yogurt.

c  What size carton does the shop assistant give the customer?

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

Q7  A farmer needs more land for his animals. There is a field to rent nearby. He arranges to inspect the field.

He needs to check on a map the direction in which to travel.

a  In which direction will he travel?

...................................................................................................................... 1 mark
The farmer decides to rent the field. It needs a new fence all the way round the edge. He measures the sides of the field.

**Not to scale**

![Diagram of a rectangular field with dimensions: 130m x 45m](image)

b **What amount of fencing will he need?**

Space for working out

……………………………………... metres 1 mark

Wire fencing is sold in 50 metre rolls.

c **What number of rolls will the farmer need to buy?**

Show your working out

……………………………………... rolls 2 marks
Each roll of fencing costs £35.95

The farmer asks his assistant to **estimate** the total cost of the fencing.

d  What does the assistant tell the farmer?

Show your working out.

£…………………………… 2 marks

Q8  A farmer needs to rent a tractor and a trailer at harvest time.

She needs to rent a tractor and trailer for **12 weeks** and wants to hire the **cheapest** one.

<table>
<thead>
<tr>
<th>Tractor and Trailer</th>
<th>Cost to rent</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>£70</td>
<td>per week</td>
</tr>
<tr>
<td>B</td>
<td>£1000</td>
<td>for 12 weeks</td>
</tr>
<tr>
<td>C</td>
<td>£920</td>
<td>for 12 weeks</td>
</tr>
</tbody>
</table>

a  Which tractor and trailer should she rent?

Show your working out.

Tractor and Trailer  ………………………………

Cost for 12 weeks £  ……………………………… 2 marks
She must pay $\frac{1}{5}$ of the cost to rent the tractor and trailer today.

She will pay the rest when she collects the tractor and trailer.

b  What amount will she pay today?

Show your working out.

£………………………

2 marks

c  What amount will she pay when she collects the tractor and trailer?

Show your working out.

£………………………

1 mark
Q9 An apprentice starts to work for a farmer. He will work **40 hours each week**.

He uses this table to find out how much he should be paid **each week** before any deductions are made.

<table>
<thead>
<tr>
<th>Age</th>
<th>25 and over</th>
<th>21 to 24</th>
<th>18 to 20</th>
<th>Under 18</th>
<th>Apprentice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hourly Pay</td>
<td>£8.21</td>
<td>£7.70</td>
<td>£6.15</td>
<td>£4.35</td>
<td>£3.90</td>
</tr>
</tbody>
</table>

**a** What will the apprentice be paid **each week**?

Show your working out.

£……………………………… 2 marks

This week he has to work 40 hours. He worked 9 hours **each day** on Monday, Tuesday, Wednesday and Thursday.

On Friday morning he checks the time on the clock when he starts work.

**b** What time can he finish work on Friday? **Use am or pm in your answer.**

Space for working out.

Time to finish work …………………… 2 marks
A farm held an event to raise money for charity. The event lasted for 3 days.

The farm manager kept a record of the amount of money raised. She asks her assistant to draw a line graph to show how much money was raised each day.

Day 1 £300
Day 2 £450
Day 3 £250

a Draw a line graph to show this information. **Put labels on your graph.**
The farm manager asks the assistant which day made the most money.

b What does the assistant tell him?

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

End of calculator paper

Total marks: 30
Functional Skills Mathematics (4748) Entry 3 Sample Assessment

Mark Scheme and Assessment record

On the Farm
Assessor notes for marking

The assessor must mark the test 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 Job Search – Mark scheme

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>1 360</td>
<td></td>
<td>4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2 160 and 250 and 468 and 775 and 950</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 32 remainder 15 accept 32.5</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 B (1 litre)</td>
<td>17</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 80.7</td>
<td>9</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 C</td>
<td>18</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 1 square and 2 rectangles only indicated</td>
<td>19</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 36 (sacks)</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 142 (ice lollies)</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 (4kg) 5 (5kg) 3</td>
<td>21</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total marks available for non-calculator paper 10
<table>
<thead>
<tr>
<th>Calculator paper</th>
<th>SCS</th>
<th>Marks</th>
<th>Candidate Mark</th>
<th>Assessor feedback/comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 81</td>
<td>6</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 0.87 and 1.54 and 1.96 and 4.43 and 6.80</td>
<td>8</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 750</td>
<td>5</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4a 348 (litres)</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4b a check by approximation eg 30 x 10 = 300 (litres)</td>
<td>5 (check)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 100 l(itres) with unit</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 without unit or correct method for finding the amount of milk needed eg 200 ÷ 2</td>
<td></td>
<td>(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6a 4:30 pm</td>
<td>12</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6b C</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>42(°C) seen for reading the temperature the thermometer is heated to or 7(°C) seen for the temperature the yogurt can be stored or a correct method for finding the temperature the yogurt can be stored eg using their reading for the temperature the thermometer is heated to – 35(° C)</td>
<td>1,14</td>
<td>(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6c 1kg</td>
<td>16</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7a South-west</td>
<td>20</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7b 350(m)</td>
<td>14</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7c 7 (rolls) and follow through their answer to 7b a correct method seen for calculating the correct number of rolls eg 350 ÷ 50</td>
<td>3,15</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7d suitable estimation rounding to the nearest £1 or 10p ie (£)252 from rounding (£)35.95 to (£)36 (£)251.65 seen for actual total</td>
<td>10,11</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8a (Tractor and Trailer) A and (£)840 a correct method for finding the total cost to rent Tractor and Trailer A eg (£)70 x 12</td>
<td>4,21</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8b A = (£)168 follow through their answer to part a B = (£)200 C = (£)184 a correct method for finding 1/5 of the cost eg ÷ 5</td>
<td>3,7</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8c Their answer to part a – their answer to part b eg (£)672 Tractor B (£)800 Tractor C (£)736</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>9a</td>
<td>(£156</td>
<td>10, 21</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(£3.90 seen or indicated on the table</td>
<td></td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>9b</td>
<td>10:20am</td>
<td>12,13</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6:20 and 4(hours) seen</td>
<td></td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or 36(hours) and 4(hours) seen</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10a</td>
<td>line graph showing 3 points (drawn any height) joined and labelled to show the 3 days.</td>
<td>23</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>suitable vertical scale and numbers up to 450</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>vertical scale does not need to start at 0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 plots correct heights ± ¼ square</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>10b</td>
<td>Day 2 (£450)</td>
<td>22</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Total marks available for calculator paper**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

### Assessment record

<table>
<thead>
<tr>
<th>Candidate mark for non-calculator paper</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>/ 10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Candidate mark for calculator paper</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>/ 30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Candidate total mark</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>/ 40</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total marks available: 40</th>
<th>Pass mark: 21</th>
</tr>
</thead>
</table>

**PRINT Assessor name:**

**Signature:**

**Date:**

**PRINT IQA’s Name: (if sampled):**

**Signature:**

**Date:**

**PRINT EQA’s Name: (if sampled):**

**Signature:**

**Date:**

**Please indicate as applicable:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Candidate has achieved</td>
<td>□</td>
</tr>
<tr>
<td>Candidate has not achieved</td>
<td>□</td>
</tr>
</tbody>
</table>