Functional Skills Mathematics (4748)
Entry 2 Sample Assessment

Candidate’s paper – Non-calculator
At the Vets

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 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 9 marks available.

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

83 85 87 89 ....

1 mark

Q2 How many weeks are there in one year?

........................................ weeks

1 mark

Q3 What is the name of this shape?

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

Q4 Multiply 11 by 10

.......................................................... 1 mark
Q5

How many corners does this shape have?

Q6

Tick all the black hexagons.

Q7

A woman needs to give her dog 1 whole tablet and \( \frac{1}{2} \) a tablet with his food.

She has these tablets.

Which of these groups of tablets should she give the dog? Tick one.
Q8 A vet nurse weighs these four puppies. She needs to keep a record of the weight of each puppy. She writes the weights in order **starting with the lightest**.

2.6kg  2.7kg  2.9kg  2.4kg

What does the nurse write down?

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

Q9 The vet clinic has cages for the animals to stay in for their treatment. The vet asks the nurse which cage Rabbit X will go in.

This diagram shows a plan of the cages.

What does the nurse tell the vet? **Finish the sentence.**

Rabbit X will go in the cage  .........................................................

1 mark

Total marks: 9

**End of non-calculator paper**
Functional Skills Mathematics (4748)
Entry 2 Sample Assessment

Candidate’s paper – Calculator allowed
At the Vets

Time allowed – 65 minutes

Marks: 27

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 27 marks available.

You may use a calculator.
Q1  Count these tablets.

How many tablets are there?

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

Q2  Write these measurements in order starting with the smallest.

96km  3km  20km  82km

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

Q3  What is 78 add 12?

.................................  1 mark
A man takes his dog to the vet. The vet says the dog needs worming tablets. The vet weighs the dog.

He checks this table for the number of tablets needed.

<table>
<thead>
<tr>
<th>Weight of dog</th>
<th>Number of worming tablets</th>
</tr>
</thead>
<tbody>
<tr>
<td>less than 5kg</td>
<td>$\frac{1}{2}$</td>
</tr>
<tr>
<td>5kg to 10kg</td>
<td>1</td>
</tr>
<tr>
<td>over 10kg</td>
<td>2</td>
</tr>
</tbody>
</table>

a How many worming tablets does the dog need?

…………………………………………………………….. 2 marks
The receptionist makes a date for the man to bring the dog back to the vets.

She writes this date on a card for the man.

b  Fill in the card.  

1 mark
Q5 A woman has a sick cat. She asks the vet for some tablets.

The vet says the cat must have 3 of these tablets each day.

![Healthy Cat](image)

**Healthy Cat**

**80 tablets**

**a** For how many days can the cat take the tablets? How many tablets will be left over?

Show your working out.

<table>
<thead>
<tr>
<th>Number of days</th>
<th>……………………</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tablets left over</td>
<td>……………………</td>
</tr>
</tbody>
</table>

2 marks

The woman wants to know how much she needs to pay.

The vet’s fees are £55. The tablets cost £26.

The vet nurse works out the total cost.

**b** What amount is this? **Give units with your answer.**

Show your working out.

| Amount to pay | …………………… |

2 marks
Q6  A customer says his dog only likes **small black** bone treats.

A vet sells bags of 10 **small black** bone treats **and** bags of mixed bone treats.

These are the bone treats in the mixed bag.

![Bone treats diagram]

**a** Which bag would be best for the dog? 
*Use numbers to explain your answer.*

Space for working out.

The best bag for the dog would be the bag of  

(Tick one)  

- small black bone treats □
- mixed bone treats □

because…………………………………………………………………

………………………………………………………………………………

………………………………………………………………………………

2 marks
The vet’s assistant shows the customer a dog feeding toy they sell.

The customer asks if he can use the bone treats with the toy.

This is where the treats go.

b What does the vet’s assistant tell the customer? Finish this sentence.

You can put the bone treats…………………. the toy. 1 mark

Q7 A woman wants to buy a drying bag like this one to dry her dog after wet and muddy walks.

She finds this information on a website.

<table>
<thead>
<tr>
<th>Size of drying bag</th>
<th>Length of dog</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>up to 62cm</td>
</tr>
<tr>
<td>Medium</td>
<td>62cm – 82cm</td>
</tr>
<tr>
<td>Large</td>
<td>over 82cm</td>
</tr>
</tbody>
</table>

She measures the dog.

Length of dog cm
Q8

A man brings his rabbit to the vet.

The vet nurse checks the temperature of the rabbit.

The temperature measures 105°F.

A healthy rabbit has a temperature of 100.5°F to 103.5°F

The rabbit’s owner asks the nurse if the rabbit is healthy.

a  Is the rabbit healthy?
How do you know?

Use numbers to explain your answer.

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

Reason.................................................................

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

2 marks
The vet gives this note to the nurse.

Notepad

Please give the cat 15ml of medicine.

The nurse uses this 5ml syringe. She fills it with medicine.

b How many full syringes of medicine should she give the cat?

Show your working out.

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

2 marks
The vet says the cat can go home.  
The vet nurse works out the bill.

The fees cost £58, the overnight stay was £22 and medicine £19.

She does this sum £58 + £22 + £19 = £99

She checks her calculation by using approximation.

c Show how she used approximation to check her calculation.

Write your check here.

2 marks
Q9  The vet keeps a record of the numbers of animals treated each day.

These are the animals treated today.

Dogs

Rabbits

Cats

The vet asks the trainee to draw a bar chart to show how many animals were treated today.

a  Draw three bars to finish the chart on the next page.
What does the trainee tell the vet? 

Use numbers to explain your answer.

<table>
<thead>
<tr>
<th>Number of animals</th>
<th>Dogs</th>
<th>Rabbits</th>
<th>Cats</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The vet asks the trainee to compare the numbers of animals treated.

b What does the trainee tell the vet?

Use numbers to explain your answer.

Total marks: 27

End of calculator paper
Functional Skills Mathematics (4748)  
Entry 2 Sample Assessment

Mark scheme and Assessment record

At the Vets
**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 **19**.

The assessment record must be completed for each candidate.

---

**Entry 2 - At the Vets**

**Mark scheme and Assessment 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 91</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 52 (weeks)</td>
<td>7</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 cylinder</td>
<td>19</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 110</td>
<td>6</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 4</td>
<td>20</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 4 black hexagons only indicated (all 4 required)</td>
<td>24</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 C indicated</td>
<td>10</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 2.4(kg) and 2.6(kg) and 2.7(kg) and 2.9(kg)</td>
<td>11</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 a correct description using positional vocabulary of the relationship eg on the top row eg in the middle</td>
<td>21</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total marks available for non-calculator paper**

**9**
<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 36</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2 3km and 20km and 82km and 96km</td>
<td>14</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 90</td>
<td></td>
<td>5</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4a 1 (tablet)</td>
<td>15,22</td>
<td>2</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>5-10kg indicated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4b 12 August 2020</td>
<td></td>
<td>13</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Date given in an appropriate date format ie day/month/year</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5a 26 (days) and 2 (left over)</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26 days seen or suitable method accept 26.666666 or 78 seen for the number of tablets for 26 days</td>
<td>8</td>
<td>(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5b £81</td>
<td></td>
<td>12</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>(£) 81 or a correct method to work out the total cost eg (£)55 + (£)26</td>
<td></td>
<td></td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>6a small black bone treats indicated and suitable reason eg there are only 6 small black bones in the mixed bag</td>
<td>2,24</td>
<td>2</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>6b a correct description using positional vocabulary of the relationship eg inside eg in</td>
<td></td>
<td>21</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>7 medium with reason referring to their length eg dog measures just over 76(cm) (which is more than 62(cm) and less than 82(cm)) (accept any measurement between 76(cm) - 76.5(cm))</td>
<td>2,14,18,3</td>
<td>3</td>
<td></td>
<td>(2)</td>
</tr>
<tr>
<td>76(cm) – 76.5(cm) seen medium indicated</td>
<td></td>
<td></td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>8a no and reason referring to temperature of the rabbit eg is over 103.5(°F)</td>
<td></td>
<td>11,17</td>
<td>2</td>
<td>(1)</td>
</tr>
<tr>
<td>no and reason without numbers eg temperature is too high or reason with numbers but without decision eg temperature is over 103.5(°F)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8b 3 (syringes of 5ml)</td>
<td></td>
<td>8,16</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>a correct method for finding the number of syringes eg 15 ÷ 5</td>
<td></td>
<td></td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>8c check to show approximation by rounding to the nearest 10 ie 60 + 20 + 20 = 100</td>
<td>4,9</td>
<td>2</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>60 or 20 or 20 or 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9a
- one bar drawn to $17 \pm \frac{1}{4}$ square
- one bar drawn to $4 \pm \frac{1}{4}$ square
- one bar drawn to $8 \pm \frac{1}{4}$ square
- three bars drawn above correct label

<table>
<thead>
<tr>
<th>Mark</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

### 9b
- comment relating to the height of the bars drawn and the number of animals
  - eg 17 dogs but only 8 cats
  - eg 4 more cats than rabbits
- comment relating to the height of the bars drawn without reference to numbers
  - eg there were more dogs today

<table>
<thead>
<tr>
<th>Mark</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>2</td>
</tr>
<tr>
<td>(1)</td>
<td></td>
</tr>
</tbody>
</table>

**Total marks available calculator paper**: 27

---

**Assessment record**

**Name:**

**City & Guilds Enrolment Number:**

**Date:**

<table>
<thead>
<tr>
<th>Candidate mark for non-calculator paper</th>
<th>/ 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candidate mark for calculator paper</td>
<td>/ 27</td>
</tr>
<tr>
<td>Candidate total mark</td>
<td>/ 36</td>
</tr>
</tbody>
</table>

**Total marks available:** 36  **Pass mark:** 19

**PRINT Assessor name:**

**Signature:**

**Date:**

**PRINT IQA’s Name:** (if sampled)

**Signature:**

**Date:**

**Please indicate as applicable:**

<table>
<thead>
<tr>
<th>Candidate has achieved</th>
<th>☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candidate has not achieved</td>
<td>☐</td>
</tr>
</tbody>
</table>