Functional Skills Mathematics (4748) Entry 3 Sample Assessment

Candidate's paper – Non-calculator
On the Farm

Time allowed – 25 minutes

Marks: 10

Name: _____

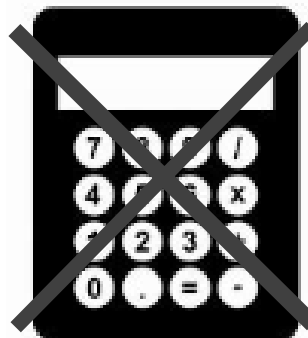City & Guilds Enrolment Number: _____

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 **65 x 8 =**

………………………………..   **1 mark**

Q2

Write these numbers in order. Start with the smallest.

432   250   950   180   775

…………………………………………………………………   **1 mark**

Q3

915 ÷ 30 =

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

Q4

Which of these amounts is the **smallest**?
Tick one

A   500ml   ☐

B   1 litre   ☐

C   800ml   ☐

D   250ml   ☐   **1 mark**

Q5 | What is the next number in this sequence?

47.6   57.7   67.8   _____   **1 mark**

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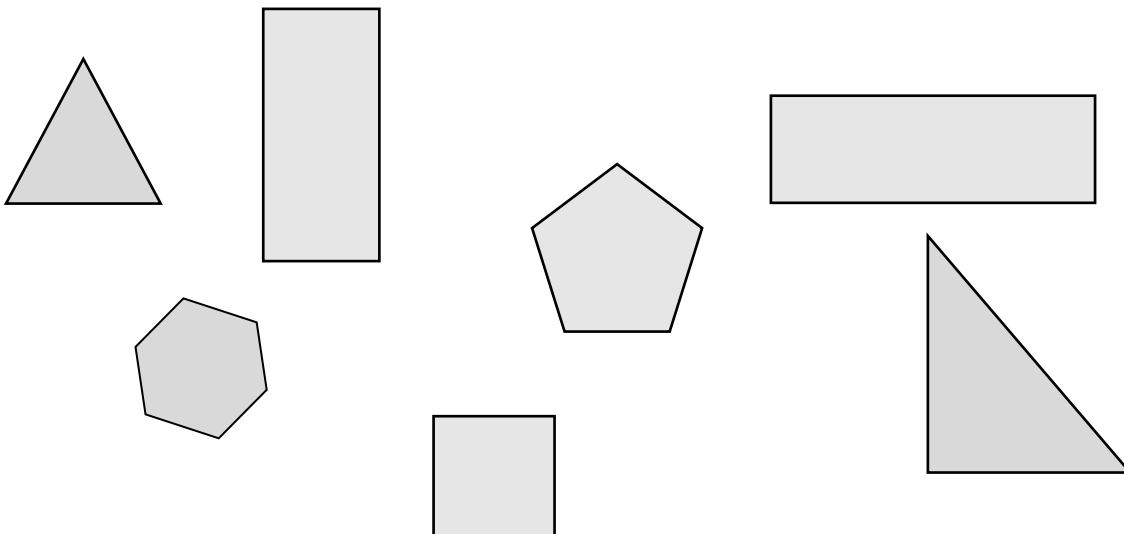

A   B   C   D

1 mark

Q7 | Tick all the shapes that have **no** right angles.

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 700kg 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 112

At the start of the day there were 350 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.

2kg	4kg	4kg	3kg
2kg	3kg	5kg	3kg
4kg	3kg	3kg	4kg
3kg	2kg	5kg	3kg
5kg	4kg	3kg	2kg
4kg	3kg	5kg	3kg

Weight	Frequency
2kg	4
3kg	10
4kg	
5kg	

Complete the frequency table.

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
On the Farm

Time allowed – 65 minutes
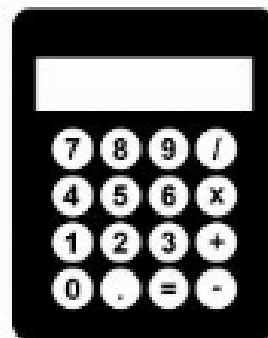
Marks: 30

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:
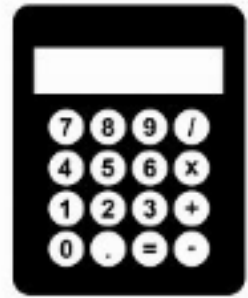I confirm that this assessment is my own work.

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?

42   57   72   87   _____   **1 mark**

Q2 | Write these numbers in order. Start with the smallest.
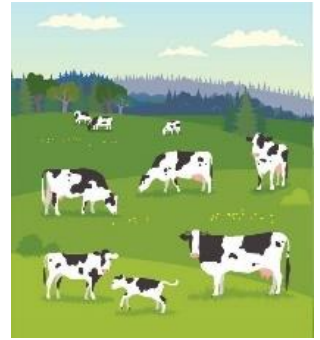
2.36   1.74   6.25   0.94   4.81

………………………………………………………………   **1 mark**

Q3 | Round 886 to the nearest 10

……………………………………………………………   **1 mark**

Q4 A farmer has **11 dairy cows**.
Each cow gives **28 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

1 mark

b Use approximation to check your answer.

Show your check here

1 mark

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.

Kitchen Café
Broad Street
FS20

Order Form

240 pots of yogurt

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 **8am**
The farmer needs to know what time the yogurt will be ready.

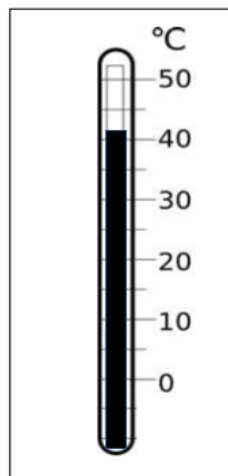**a**   What time will the dairy assistant tell her? Use **am** or **pm** in your answer.

Space for working out.

Time ……………………….

1 mark

To make the yogurt, the assistant heats the yogurt to 83°C and then cools it to set.
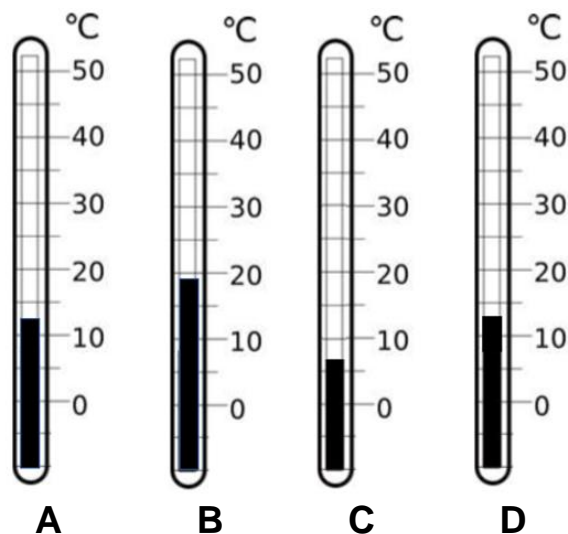This thermometer shows the setting temperature.

After setting, the temperature has to be **cooled down by 35º 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

| 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.

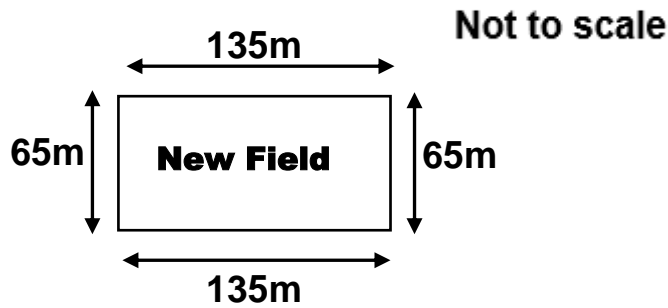He needs to check on a map the direction in which to travel from his farm.

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

135m

65m | New Field | 65m

135m

b | What length 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 £39.77

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

The assistant uses approximation to find out

d What is the approximate cost of the fencing?

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.

Tractor and Trailer	Cost to rent	Time
A	£75	per week
B	£1000	for 12 weeks
C	£920	for 12 weeks

a Which tractor and trailer should she rent?

Show your working out.

Tractor and Trailer (tick one)   **A** ☐ **B** ☐ **C** ☐

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 **30 hours each week**.

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

Age	25 and over	21 to 24	18 to 20	Under 18	Apprentice
Hourly Pay	£8.72	£8.20	£6.45	£4.55	£4.15

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

Show your working out.

£……………………

2 marks

This week he has to work 30 hours.
He worked 7 hours **each day** on Monday, Tuesday and Wednesday.
He worked 4 hours on 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**

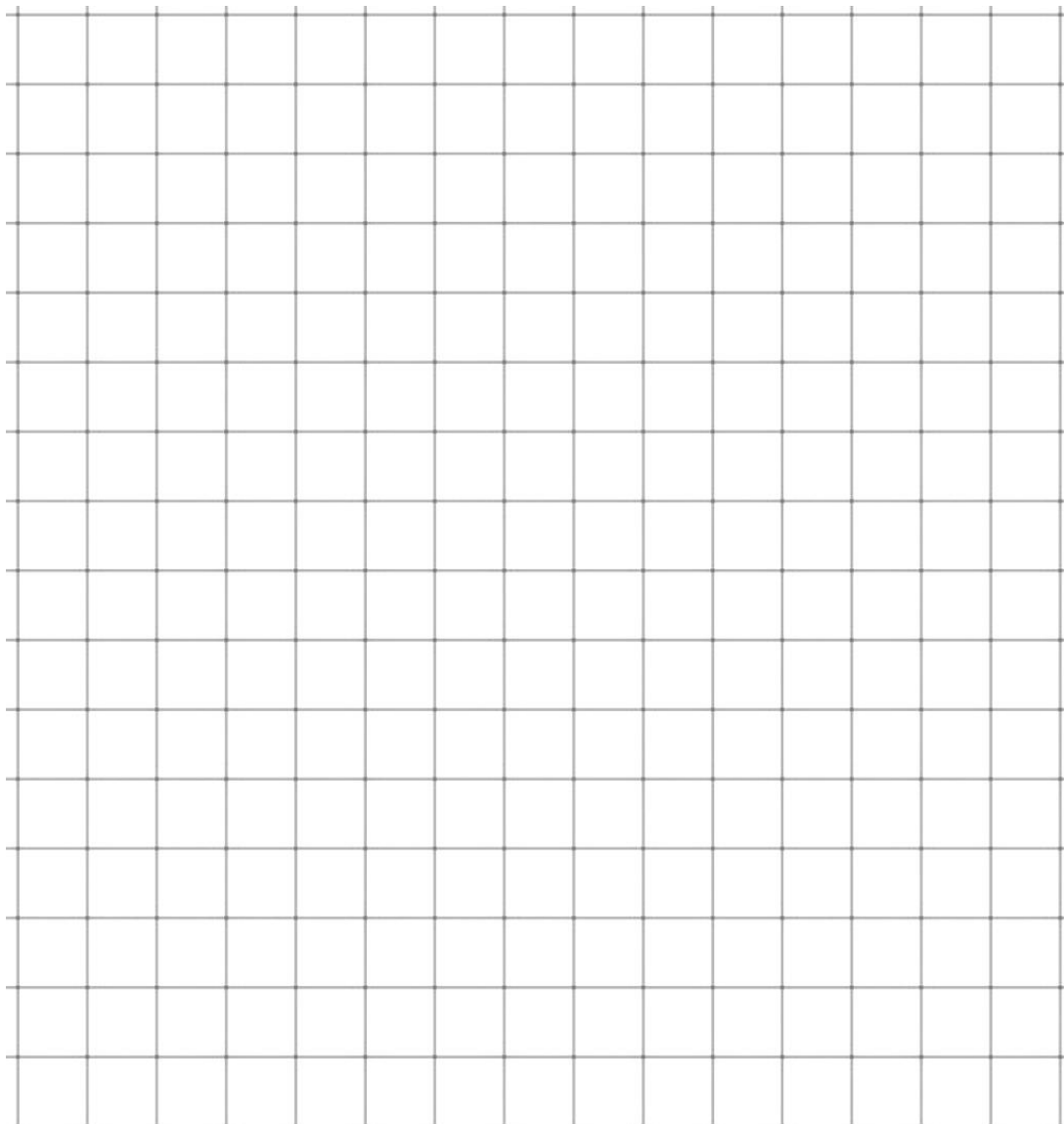**Q10** A farm held an event to raise money for charity.
The event lasted for 3 days.

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 £350

Day 2 £250

Day 3 £500

a Draw a line graph to show this information.
Put labels on your graph.

3 marks

The farm manager asks the assistant which day made the most money.

b What does the assistant tell him?

…………………………………………………………………………… **1 mark**

Total marks: 30

End of calculator paper