# Functional Skills Mathematics (4748)
# Entry 3 Sample Assessment

www.cityandguilds.com
July 2022
Version 1.0

## Candidate's paper – Non-calculator
On the Farm

## Time allowed – 25 minutes

Marks: 10

Name: _____

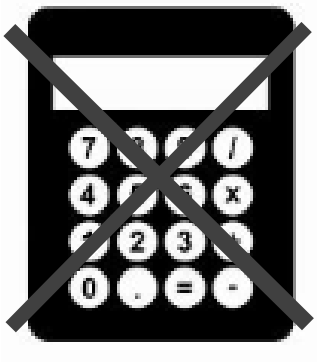
City & Guilds Enrolment Number: _____

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?

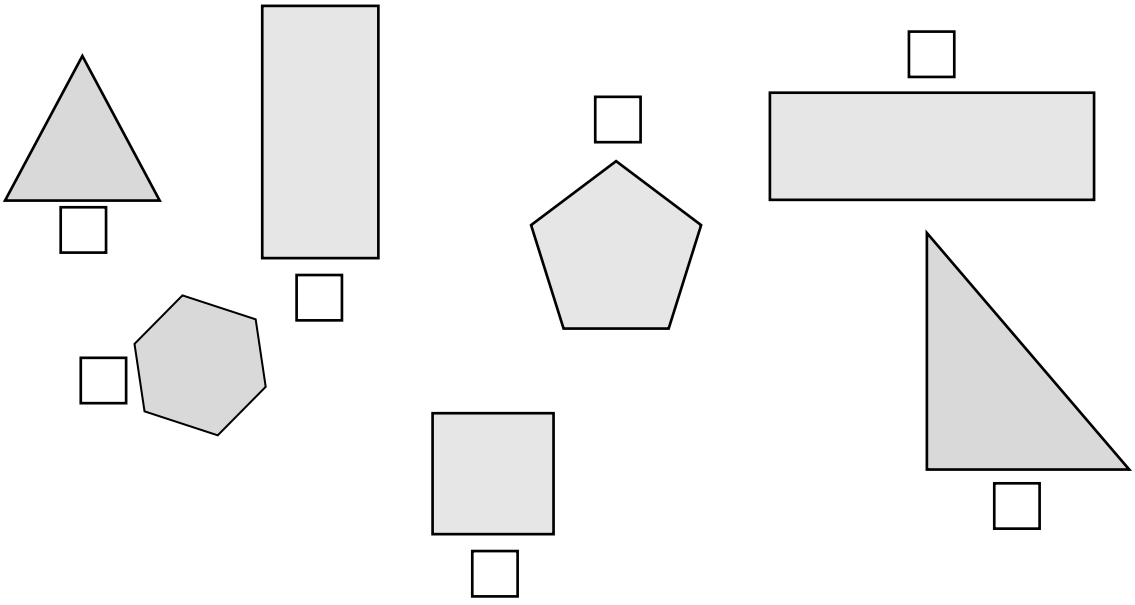
47.6 57.7 67.8 _____ **1 mark**

**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

www.cityandguilds.com
July 2022
Version 1.0

## Candidate's paper – Calculator allowed
On the Farm

## Time allowed – 65 minutes

Marks: 30

Name: _____

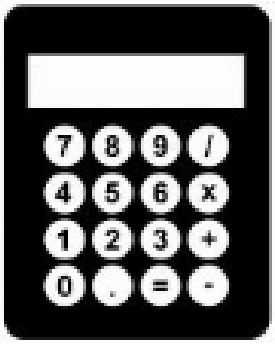
City & Guilds Enrolment Number: _____

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.

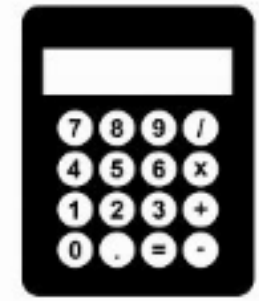
**Candidate's signature** _____

**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**

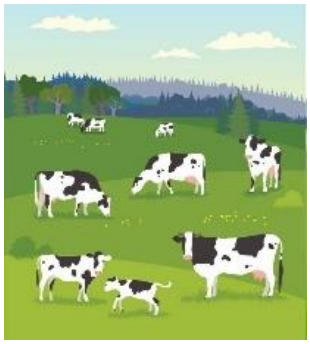
…… **1 mark**

**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**

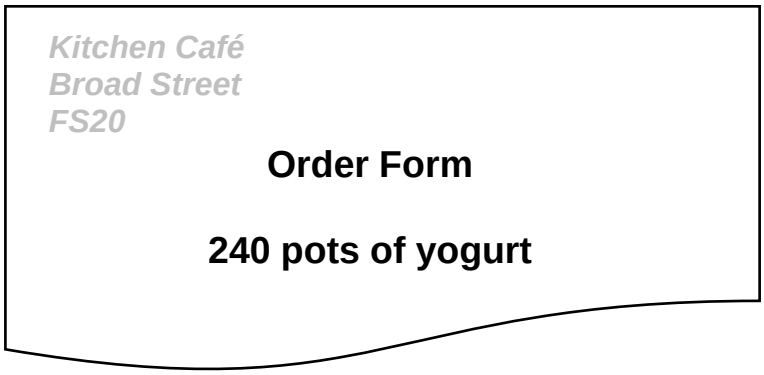
**b** Use approximation to check your answer.

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.




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.

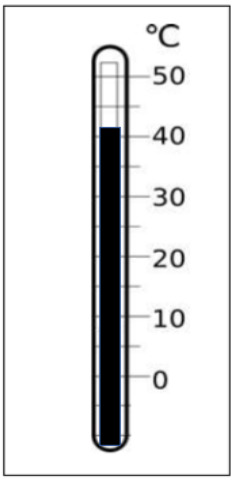
**a** What time will the dairy assistant tell her? Use **am** or **pm** in your answer.

Space for working out.

Time …….

**1 mark**

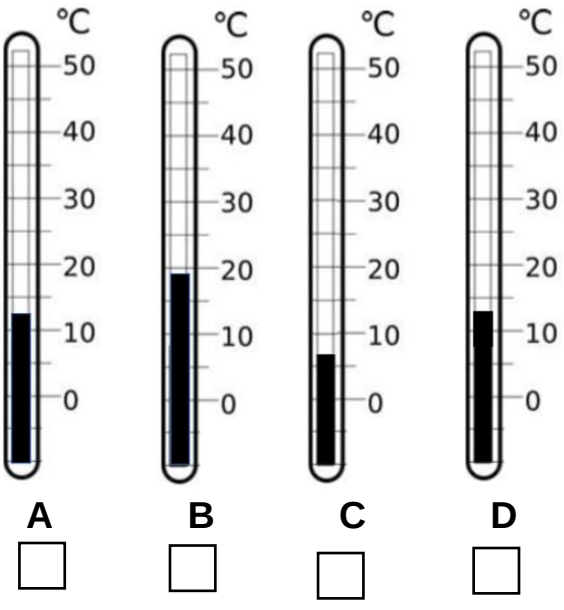
To make the yogurt, the assistant heats the yogurt to 83°C and then cools it to set.
This thermometer shows the setting temperature.




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




**2 marks**

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

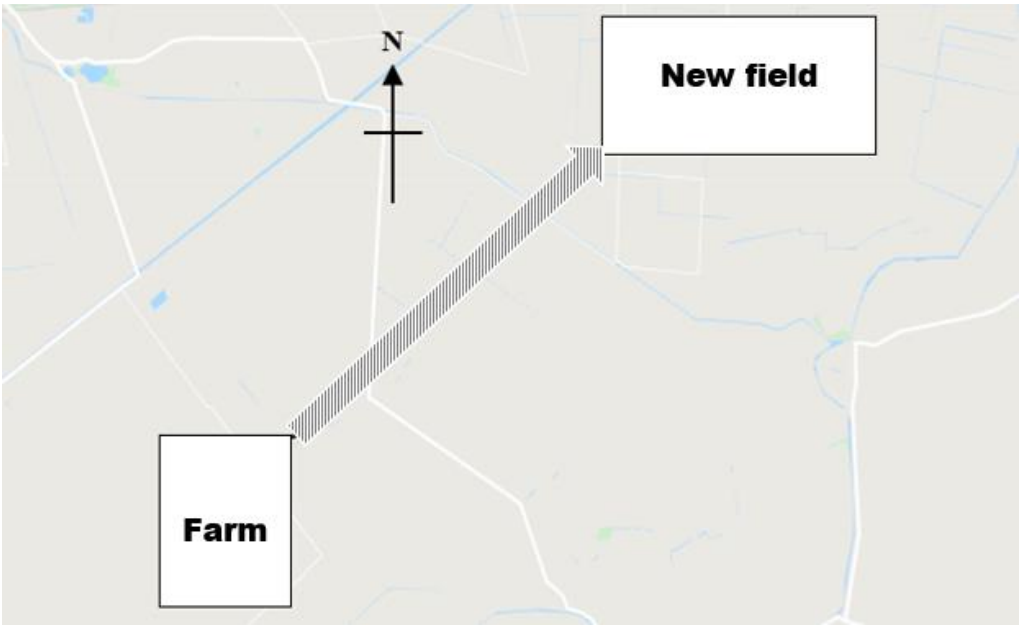
A customer asks the shop assistant for the carton that holds the most yogurt.

**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.

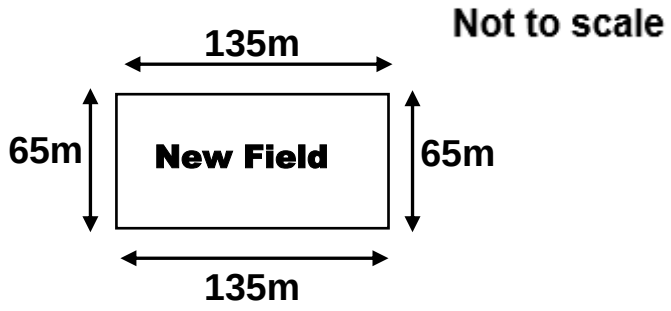
He needs to check on a map the direction in which to travel from his farm.




**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.




**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.

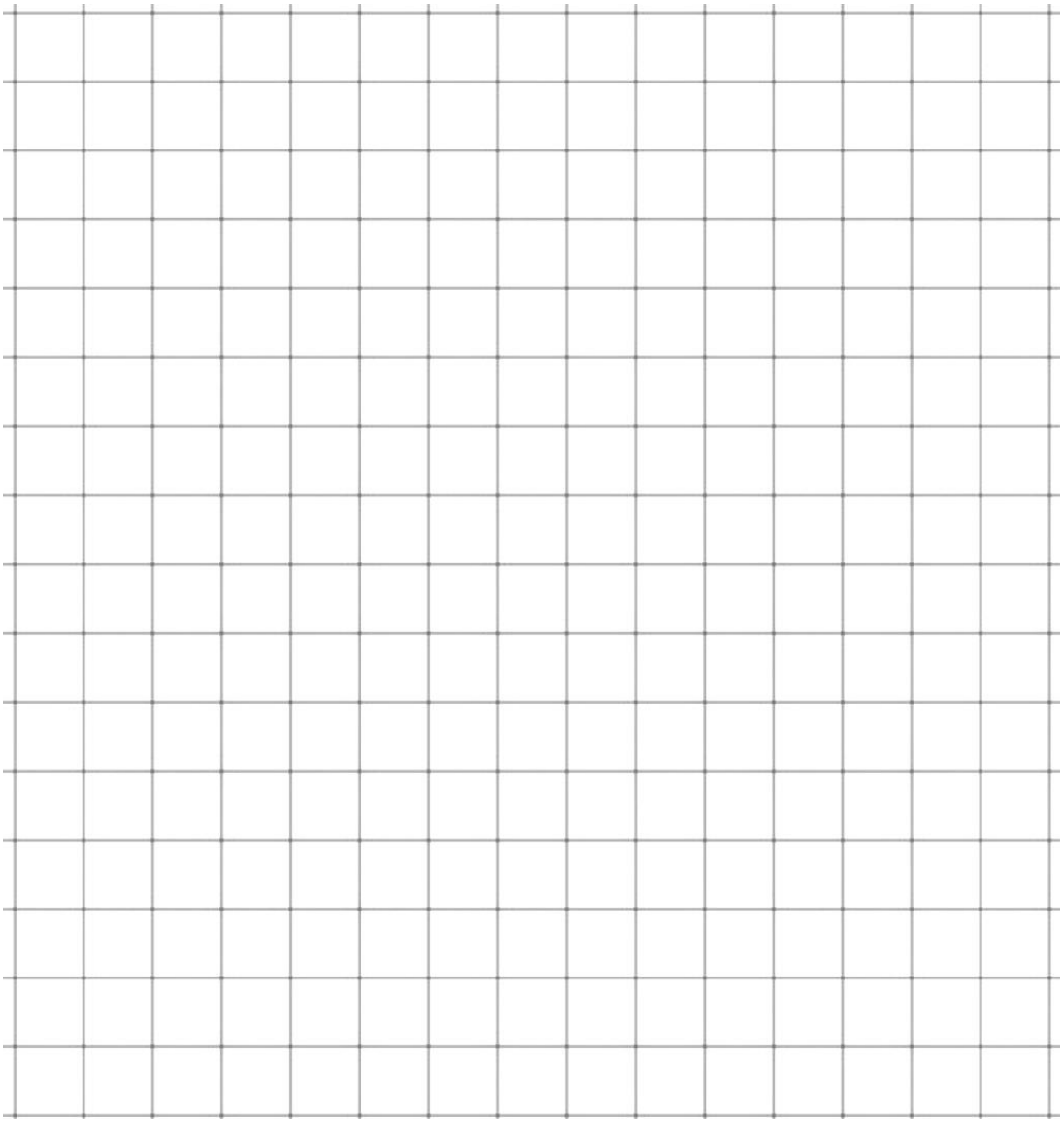
The farm manager kept a record of the amount of money raised.
She asks her assistant to draw a line graph to show how much money was raised each day.

**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**

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**5-6 Giltspur Street**
**London**
**EC1A 9DE**
**www.cityandguilds.com**

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