Functional Skills Mathematics

Level 1

Section A: Non-Calculator

Paper code: L1-393895

Time: 25 minutes

Total marks: 14

Calculators may not be used

Candidate surname	Other names
Centre number	Candidate number

Signature: _____

Instructions

- Answer all questions.
- Show your working clearly.
- Write your final answer in the answer box.
- Check your answers where possible.
- Diagrams are not accurately drawn unless stated.

Advice

- Read each question carefully.
- Use the marks as a guide.
- Check your work at the end.

Section A

Answer ALL questions.

1(a) **(1 marks)**

Convert 9 metres into centimetres.

Working space

Answer

1(b) **(1 marks)**

Work out 3400 ÷ 1000

Working space

Answer

1(c) **(1 marks)**

Calculate 56 − 25 ÷ 2

Working space

Answer

2 **(3 marks)**

Sam is building a wall.

The wall needs 1317 bricks.

Each brick weighs 2.91 kg.

A delivery charge is added if the total weight is over 2500 kg.

Use estimation to decide if the delivery charge is needed.

Working space

Answer

3(a) **(2 marks)**

A rectangular field is 131 m long and 95 m wide.

Calculate the perimeter.

Working space

Answer

3(b) **(2 marks)**

The farmer needs 252 m of fencing.

Each fence panel is 2.5 m long.

Work out how many panels are needed.

Working space

Answer

4 **(4 marks)**

Aisha is buying a car and will keep it for 5 years.

	Buying price	**Running cost**
Petrol	£22,754	£8,332 for 5 years
Diesel	£25,044	£993 each year

Which car is better value? Show why.

Working space

Answer

Total for Section A is 14 marks

Functional Skills Mathematics

Level 1

Section B: Calculator

Paper code: L1-393895

Time: 1 hour 30 minutes

Total marks: 42

Calculators may be used

Candidate surname	Other names
Centre number	Candidate number

Signature: _____

Instructions

- Answer all questions.
- Show your working clearly.
- Write your final answer in the answer box.
- Check your answers where possible.
- Diagrams are not accurately drawn unless stated.

Advice

- Read each question carefully.
- Use the marks as a guide.
- Check your work at the end.

Section B

Answer ALL questions.

1(a) **(2 marks)**

A cafe sells 79 cups of tea and 12 cups of coffee.

Write the ratio of tea to coffee in its simplest form.

Working space

Answer

1(b) **(1 marks)**

2 out of 4 cups of tea have sugar.

Choose the likelihood: impossible, unlikely, even chance, likely, certain.

Working space

Answer

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2 **(4 marks)**

Ryan buys 12 chairs.

Each chair costs £94.

VAT is 20%.

They have £1,141.

Is this enough?

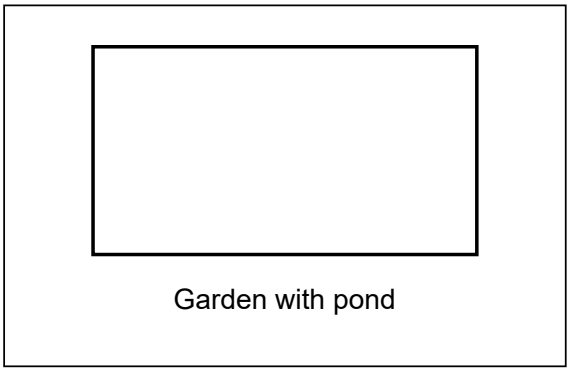
Working space

Answer

3 **(5 marks)**

A rectangular garden is 13 m by 11 m.

A rectangular pond is 4 m by 3 m.



Garden with pond

One box of grass seed covers 15 m². Work out the number of boxes needed.

Working space

Answer

4 **(3 marks)**

The temperature is 19°C.

To convert to °F, multiply by 1.8 and add 32.

Is the temperature more than 70°F?

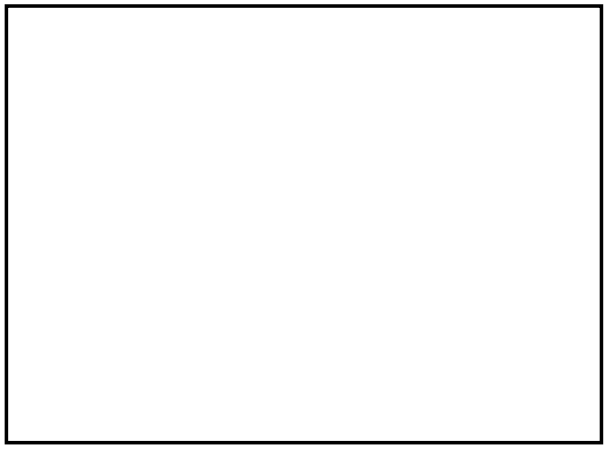
Working space

Answer

5 **(3 marks)**

Draw a bar chart for this information.

Monday	Tuesday	Wednesday	Thursday	Friday
93	181	89	240	180



Working space

Answer

6(a) **(5 marks)**

A baker used these 50 kg bags of flour.

Week	1	2	3	4
Bags	11	13	10	6

In week 5, 2478 loaves are made. Each loaf needs 250 g of flour.

Work out the mean number of 50 kg bags used over 5 weeks.

Working space

Answer

6(b) **(1 marks)**

Show a check of your calculation for the mean.

Working space

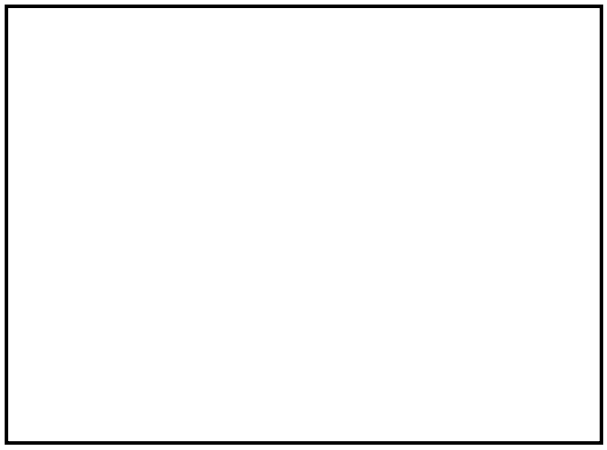
Answer

7 **(3 marks)**

Draw a space for a slide on the grid.

The space must be a rectangle, 3 m by 1.5 m.

Scale: 1 cm represents 50 cm.



Working space

Answer

8 **(3 marks)**

Complete a grouped frequency table using groups 1–5, 6–10, 11–15 and 16–20.

14 7 20 13 17 17 5 7 11 17 6 8 15 5 2 8 14 10 11 17

Working space

Answer

9 **(4 marks)**

A cuboid container has width 30 cm and height 56 cm.

The capacity is 148 litres.

1 litre = 1000 cm^3.

Work out the length to the nearest cm.

Working space

Answer

10(a) **(2 marks)**

Match each 3D shape to the correct net: cube, cuboid and cylinder.

Working space

Answer

10(b) **(1 marks)**

Which shape could be the plan view of a cylinder standing upright?

Circle / Triangle / Rectangle / Pentagon

Working space

Answer

11(a) **(4 marks)**

A house costs a quarter of a million pounds.

The deposit is 15% of the price.

Ben has already saved £28,806.

How much more money is needed?

Working space

Answer

11(b) **(1 marks)**

Show a check of your percentage calculation.

Working space

Answer

Total for Section B is 42 marks
Total for paper is 56 marks

Mark Scheme

Question	Marks	Method	Answer
1(a)	1	Multiply by 100.	900 cm
1(b)	1	Divide by 1000.	3.4
1(c)	1	Use division before subtraction.	43.5
2	3	Round the numbers, multiply, compare with 2500 kg.	Delivery charge needed.
3(a)	2	Use 2 × length + 2 × width.	452 m
3(b)	2	Divide total length by panel length and round up.	101 panels
4	4	Find both five-year totals and compare.	Diesel is better value. Petrol total £31,086, diesel total £30,009.
B1(a)	2	Write the ratio and simplify fully.	79:12
B1(b)	1	2 out of 4 is half.	Even chance
B2	4	Multiply chairs by price, add 20% VAT, compare with budget.	£1,354 so no, not enough.
B3	5	Garden area minus pond area, divide by 15, round up.	9 boxes
B4	3	Apply the conversion rule.	66.2°F, so no.
B5	3	Suitable scale, labelled axes, accurate bars.	93, 181, 89, 240, 180
B6(a)	5	Find week 5 flour, convert to bags, add all weeks, divide by 5.	10.5 bags
B6(b)	1	Reverse check accepted.	Mean × 5 should equal total bags.
B7	3	Correct rectangle size and scale.	6 cm by 3 cm rectangle.
B8	3	Correct groups and frequencies.	1–5: 3, 6–10: 6, 11–15: 6, 16–20: 5
B9	4	Convert litres to cm^3, divide by width and height.	88 cm
B10(a)	2	Correct matching of shapes and nets.	Teacher check.
B10(b)	1	Top view of an upright cylinder.	Circle
B11(a)	4	Find 15% of £250,000 then subtract savings.	£8,694
B11(b)	1	10% + 5% method accepted.	10% = £25,000 and 5% = £12,500.