Functional Skills Mathematics

Level 1

Section A: Non-Calculator

Paper code: L1-800055

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 2 metres into centimetres.

Working space

Answer

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

Work out 7800 ÷ 1000

Working space

Answer

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

Calculate 56 − 30 ÷ 5

Working space

Answer

2 **(3 marks)**

Maya is building a wall.

The wall needs 843 bricks.

Each brick weighs 2.38 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 146 m long and 242 m wide.

Calculate the perimeter.

Working space

Answer

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

The farmer needs 187 m of fencing.

Each fence panel is 4 m long.

Work out how many panels are needed.

Working space

Answer

4 **(4 marks)**

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

	Buying price	**Running cost**
Petrol	£14,172	£8,709 for 5 years
Diesel	£18,139	£1,032 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: L1-800055

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 38 cups of tea and 24 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)**

Sam buys 11 chairs.

Each chair costs £58.

VAT is 20%.

They have £1,460.

Is this enough?

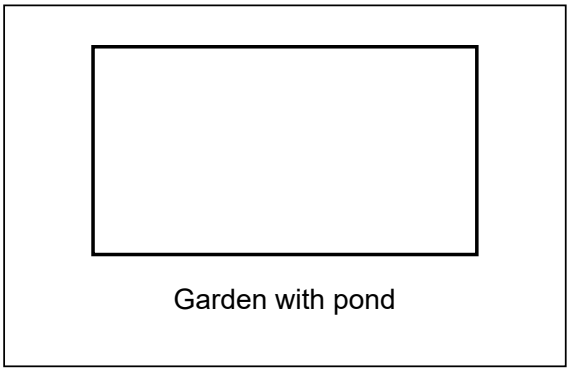
Working space

Answer

3 **(5 marks)**

A rectangular garden is 17 m by 8 m.

A rectangular pond is 2 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 20°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
176	199	192	198	150

Working space

Answer

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

A baker used these 50 kg bags of flour.

Week	1	2	3	4
Bags	13	9	11	12

In week 5, 2603 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

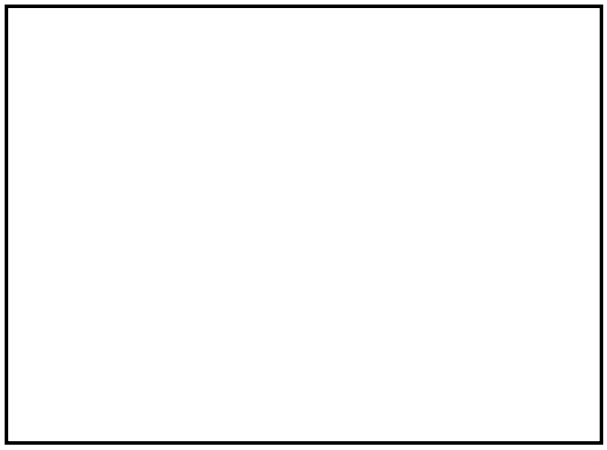
Answer

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.

4 3 20 14 15 12 17 1 12 11 6 15 13 7 8 8 5 9 4 4

Working space

Answer

9 **(4 marks)**

A cuboid container has width 42 cm and height 55 cm.

The capacity is 192 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.

Ryan has already saved £31,496.

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.	200 cm
1(b)	1	Divide by 1000.	7.8
1(c)	1	Use division before subtraction.	50
2	3	Round the numbers, multiply, compare with 2500 kg.	No delivery charge needed.
3(a)	2	Use 2 × length + 2 × width.	776 m
3(b)	2	Divide total length by panel length and round up.	47 panels
4	4	Find both five-year totals and compare.	Petrol is better value. Petrol total £22,881, diesel total £23,299.
B1(a)	2	Write the ratio and simplify fully.	19:12
B1(b)	1	2 out of 4 is half.	Even chance
B2	4	Multiply chairs by price, add 20% VAT, compare with budget.	£766 so yes, enough.
B3	5	Garden area minus pond area, divide by 15, round up.	9 boxes
B4	3	Apply the conversion rule.	68.0°F, so no.
B5	3	Suitable scale, labelled axes, accurate bars.	176, 199, 192, 198, 150
B6(a)	5	Find week 5 flour, convert to bags, add all weeks, divide by 5.	11.6 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: 6, 6–10: 5, 11–15: 7, 16–20: 2
B9	4	Convert litres to cm^3, divide by width and height.	83 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.	£6,004
B11(b)	1	10% + 5% method accepted.	10% = £25,000 and 5% = £12,500.