

Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson Edexcel
Functional Skills**

Centre Number

Candidate Number

*****Past Paper 1*****

Time: 1 hour 30 minutes

Paper Reference **PMAT1/C01**

Mathematics

Level 1

Section B (Calculator)



You must have:

Pen, calculator, HB pencil, eraser, ruler graduated in cm and mm, protractor, pair of compasses. Tracing paper may be used.

Total Marks

My signature confirms that I will not discuss the content of the test with anyone.

Signature: _____

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Sign the declaration.
- Answer **all** questions.
- Write your final answers in the boxes provided.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You **must** show clearly how you get your answers in the spaces provided. Marks will be awarded for your working out.
- Check your working and your answers at each stage.
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- **Calculators may be used.**
- If your calculator does not have π button take the value of π to be 3.14

Information

- The total mark for this section is 42.
- The total mark for this paper is 56.
- The marks for each question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- This sign shows where marks will be awarded for showing your checks.

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

Turn over ►

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Pearson

SECTION B

Answer ALL questions. Write your answers in the spaces provided.

- 1** Johan works in a cafe.
One morning he sells 48 cups of tea and 12 cups of coffee.

(a) Write down the ratio of the number of cups of tea to the number of cups of coffee.
Write your answer in its simplest form. (2)

:

A customer buys four cups of tea.
Johan puts sugar in two of the cups of tea.
The customer picks one cup at random.

(b) What is the likelihood that the customer picks a cup of tea with sugar? (1)

Tick [✓] a box to show your answer.

- [] impossible
- [] unlikely
- [] even chance
- [] likely
- [] certain

(Total for Question 1 is 3 marks)

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- 2 Sam is a manager in an office.
She wants to buy 14 new chairs.

Each chair costs £73
Sam will also be charged 20% VAT on the cost of the chairs.

Sam has £1200 to buy the chairs.

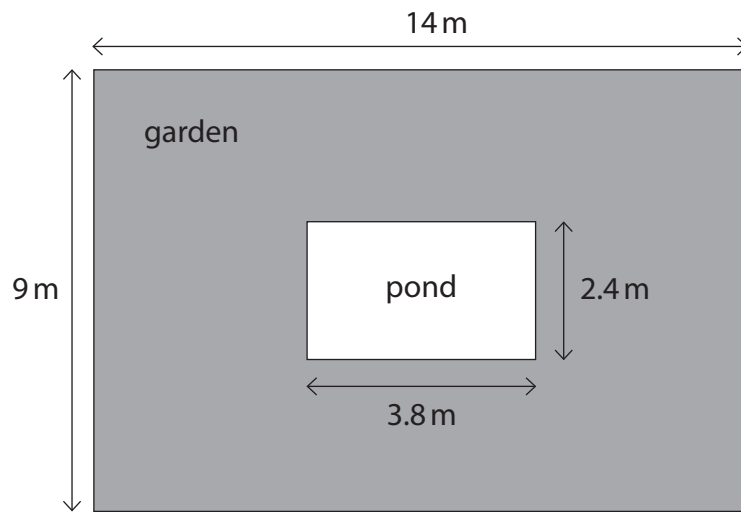
Is £1200 enough to buy the 14 chairs?

(4)

(Total for Question 2 is 4 marks)



- 3 Here is a garden and a pond.
The garden and the pond are rectangular.



Kayla is covering the garden with grass seed.
She will not put any grass seed in the pond.

One box of grass seed covers 15 m^2 of garden.

Work out the number of boxes of grass seed Kayla needs to cover the garden.

(5)

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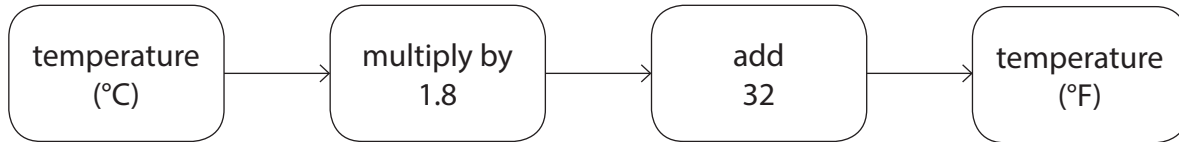
[Small empty rectangular box]

(Total for Question 3 is 5 marks)



- 4 Dave is going on holiday to Madrid.
The temperature tomorrow in Madrid will be 21°C .

Dave uses this rule to change the temperature into Fahrenheit ($^{\circ}\text{F}$).



Dave thinks the temperature in Madrid will be more than 70°F .

Is Dave correct?
Show why you think this.

(3)

(Total for Question 4 is 3 marks)

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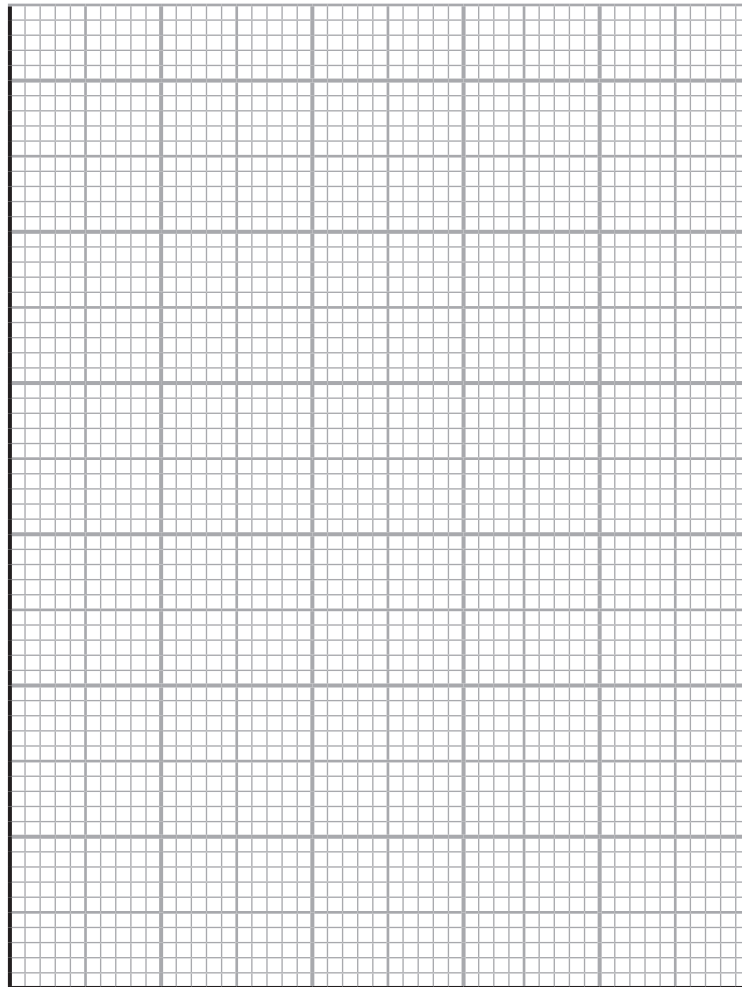
5 Kai works in a call centre.

The table shows the number of phone calls he receives each day.

Monday	Tuesday	Wednesday	Thursday	Friday
240	140	185	80	225

Draw a bar chart to display this information.

(3)



(Total for Question 5 is 3 marks)



- 6 Seenal is a baker.
She buys flour in 50 kg bags.

The table shows the number of 50 kg bags of flour she used to make loaves in each of the last 4 weeks.

week	1	2	3	4
number of bags of flour	7	14	8	13

Seenal will make 2400 loaves in week 5
Each of these loaves will need 250 g of flour.

Seenal works out the weekly mean number of 50 kg bags of flour used in these 5 weeks.
She will use this figure for future orders.

- (a) Work out the weekly mean number of 50 kg bags of flour used in these 5 weeks.

(5)

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(b) Show a check of your calculation for the mean.

(1)

(Total for Question 6 is 6 marks)



7 Gordon buys a new slide for his garden.

His garden measures 6 m by 7 m.

The space for the slide must be

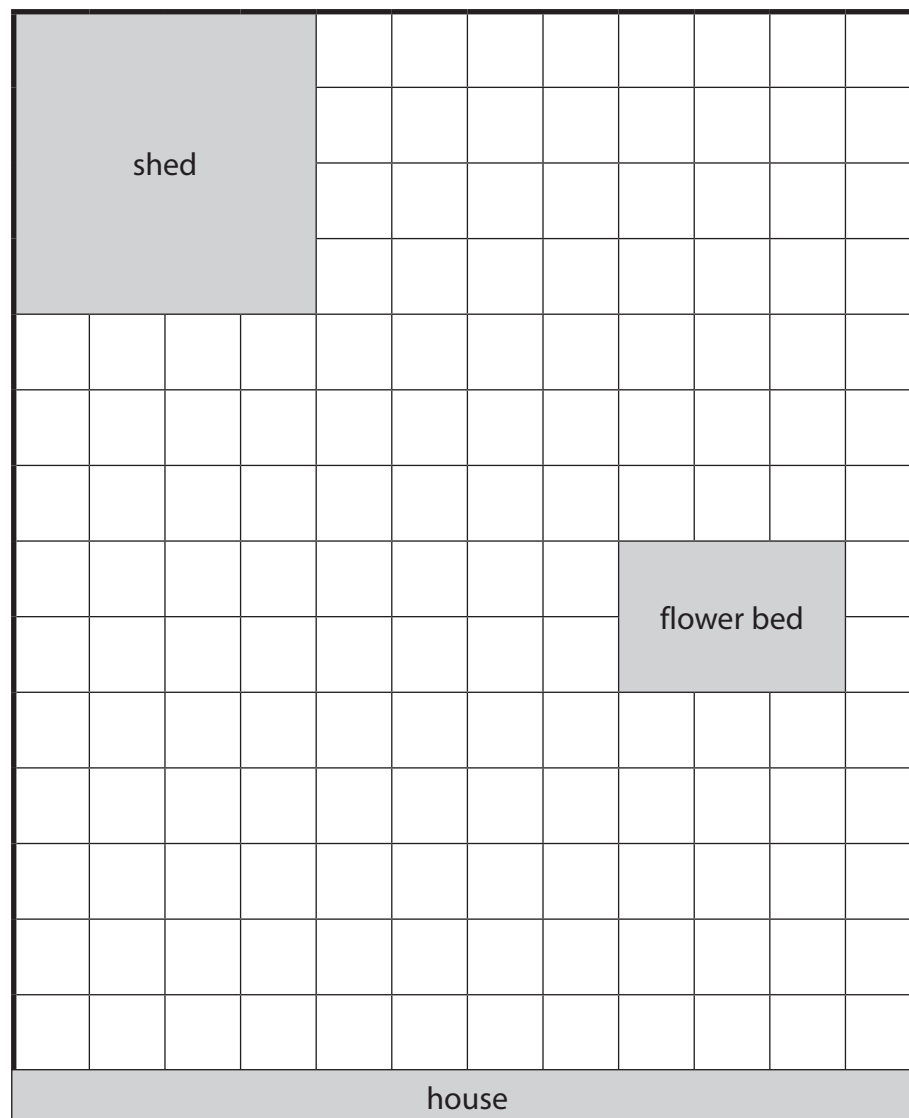
- a rectangle, 3 m by 1.5 m
- at least 2 m away from the house
- at least 0.5 m away from a fence or any other feature.

Draw a space for the slide on the square grid below.

(3)

Key 1 cm on the grid represents 50 cm in the garden

— fence



(Total for Question 7 is 3 marks)

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- 8 Belinda asks 20 people
'How many hours of TV did you watch last week?'

Here are the results.

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

Belinda wants to show these results in a frequency table.
She will use 4 equal groups.
The first group will start with 1 hour and the last group will end with 20 hours.

Design and complete a suitable frequency table.

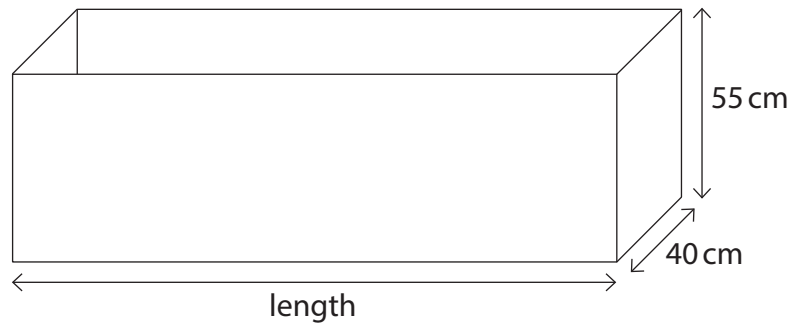
(3)

(Total for Question 8 is 3 marks)



P 6 4 9 5 1 A 0 1 1 1 6

- 9 Dennis is making a container for tomato plants.
The container will be in the shape of a cuboid.



The capacity of the container will be 180 litres.

$$1 \text{ litre} = 1000 \text{ cm}^3$$

Work out the length of the container.
Give your answer to the nearest whole centimetre.

(4)

cm

(Total for Question 9 is 4 marks)

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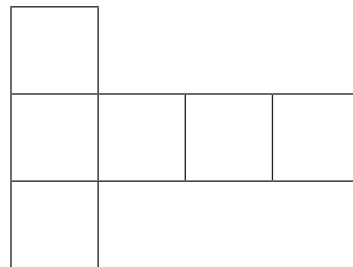
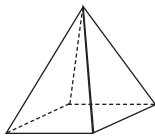
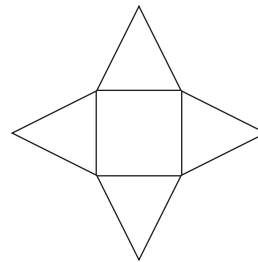
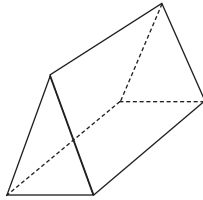
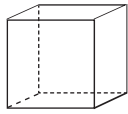
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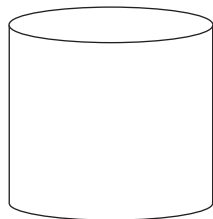
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(a) Match each 3-D shape to the correct net.
Draw lines to show your answers.

(2)



Here is a cylinder.

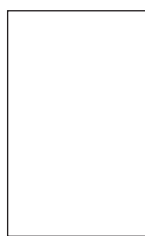


(b) Which one of the shapes below could be the plan view of this cylinder?
Tick the correct shape.

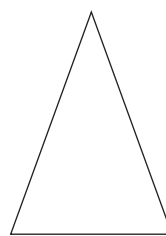
(1)



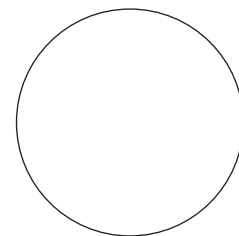
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(Total for Question 10 is 3 marks)



P 6 4 9 5 1 A 0 1 3 1 6

11 James wants to buy a house.
The price of the house is a quarter of a million pounds.

James has to pay a deposit for the house.
The deposit is 15% of the price of the house.

James already has part of the deposit.
He has £32 000

(a) How much **more** money does James need for the deposit?

(4)

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(b) Show a check of your percentage calculation.

(1)

(Total for Question 11 is 5 marks)

TOTAL FOR SECTION B IS 42 MARKS
TOTAL FOR PAPER IS 56 MARKS





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