

Please check the examination details below before entering your candidate information

Candidate surname					Other names				
Centre Number					Candidate Number				

Pearson Edexcel International GCSE

Wednesday 3 June 2026

Morning (Time: 2 hours)

Paper reference **4MA1/2F**

Mathematics A

PAPER 2F

Foundation Tier



You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Total Marks

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.
- Answer **all** questions.
- Without sufficient working, correct answers may be awarded no marks.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- **Calculators may be used.**
- You must **NOT** write anything on the formulae page.
- Anything you write on the formulae page will gain NO credit.

Information

- The total mark for this paper is 100.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

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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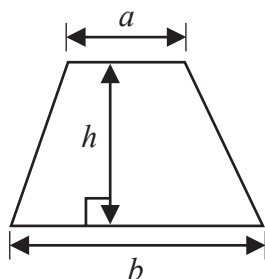
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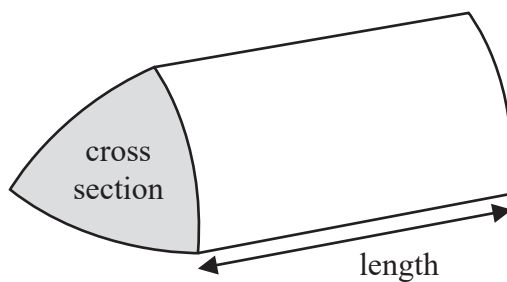
International GCSE Mathematics

Formulae sheet – Foundation Tier

$$\text{Area of trapezium} = \frac{1}{2}(a + b)h$$

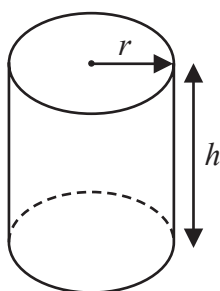


$$\text{Volume of prism} = \text{area of cross section} \times \text{length}$$



$$\text{Volume of cylinder} = \pi r^2 h$$

$$\text{Curved surface area of cylinder} = 2\pi r h$$



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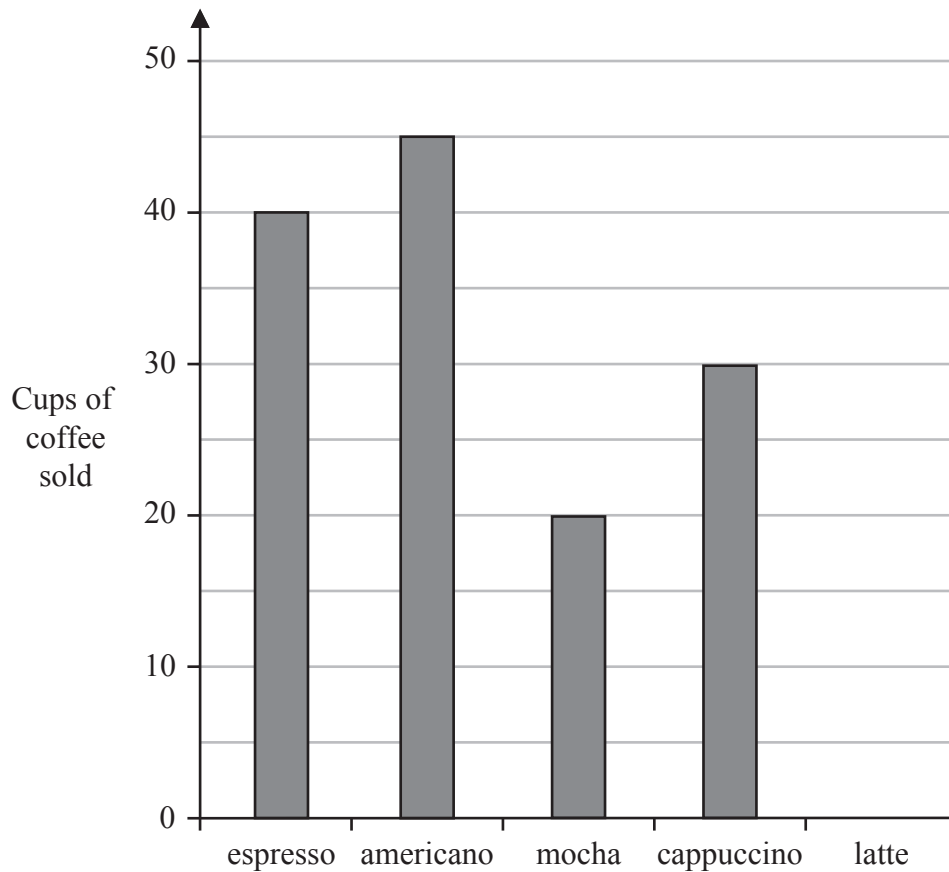
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Answer all TWENTY SEVEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1** The bar chart shows information about the numbers of cups of coffee sold in a shop on Friday.



- (a) How many cups of mocha were sold?

.....
(1)

The shop sold 25 cups of latte.

- (b) Draw a bar on the bar chart to show this information.

(1)

The shop sold more cups of espresso than cups of cappuccino.

- (c) How many more?

.....
(1)

(Total for Question 1 is 3 marks)



2 Here are the first five terms of a number sequence.

11 20 29 38 47

(a) (i) Write down the next term of this sequence.

.....
(1)

(ii) Explain how you found your answer to part (a) (i)

.....
(1)

Here are the first five terms of a different number sequence.

1 3 9 27 81

(b) (i) Write down the next term of this sequence.

.....
(1)

(ii) Explain why 2186 is not a term in this sequence.

.....
.....
(1)

(Total for Question 2 is 4 marks)

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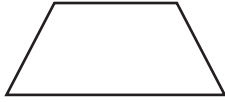
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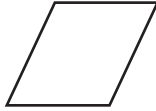
- 3 (a) Write down a suitable metric unit for the weight of an apple.

.....
(1)

Here are four quadrilaterals.



A



B



C



D

One of these quadrilaterals is a rhombus.

- (b) Write down the letter of the quadrilateral that is a rhombus.

.....
(1)

(Total for Question 3 is 2 marks)

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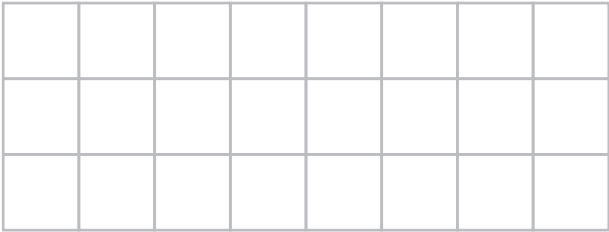
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4 (a) Write $\frac{9}{10}$ as a decimal.

(1)

Here is a shape made of squares.



(b) Shade $\frac{3}{8}$ of the shape.

(1)

Here are four fractions.

$\frac{2}{3}$

$\frac{5}{9}$

$\frac{11}{16}$

$\frac{9}{17}$

When written as a decimal, one of these fractions will give a terminating decimal.

(c) Write down this fraction.

(1)

Here is a number machine.



(d) Work out the output when the input is 48

(1)

(Total for Question 4 is 4 marks)

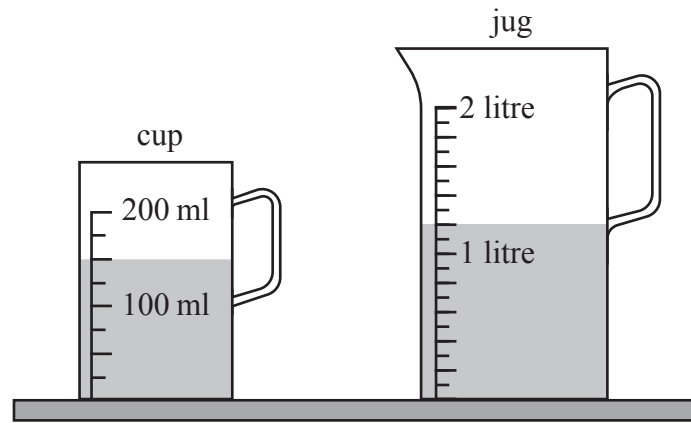


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- 5 The diagram shows a cup and a jug.



The cup and the jug both contain orange juice.

The jug contains more orange juice than the cup.

Work out how much more.

State the units of your answer.

(Total for Question 5 is 4 marks)



6 Here is a list of numbers.

4 8 9 13 14 20

(a) From the numbers in the list, write down

(i) the factor of 42

.....
(1)

(ii) the multiple of 5

.....
(1)

‘The sum of an even number and an odd number is an even number.’

(b) Give one example to show that this statement is **not** correct.

.....
.....
(1)

(Total for Question 6 is 3 marks)

7 The cost of 65 litres of petrol is 130 euros.

(a) Work out the cost of 195 litres of petrol.

..... euros
(2)

(b) Work out how many litres of petrol can be bought for 100 euros.

..... litres
(2)

(Total for Question 7 is 4 marks)



- 8 The diagram shows a sketch of kite $ABCD$

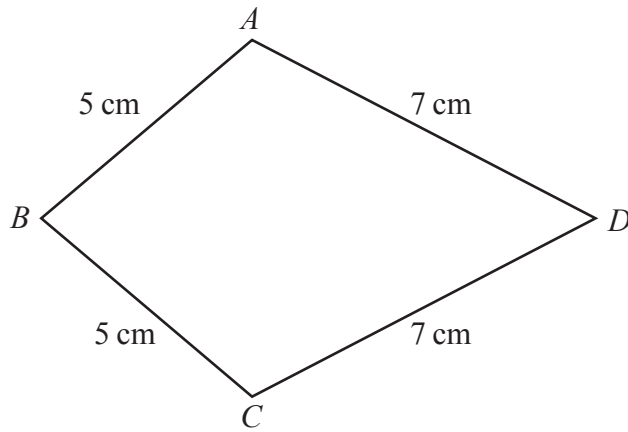


Diagram **NOT**
accurately drawn

$$BA = BC = 5 \text{ cm} \quad DA = DC = 7 \text{ cm}$$

Use ruler and compasses only to construct an accurate drawing of kite $ABCD$
You must show all your construction lines.

The points A and C are drawn for you.

A
•

•
 C

(Total for Question 8 is 3 marks)



9 (a) Simplify $5h + 6p + 2h - 9p$

.....
(2)

(b) Work out the value of $4c - 3r$ when $c = 9$ and $r = 5$

.....
(2)

(c) Solve $4n - 9 = 21$

$n =$
(2)

(Total for Question 9 is 6 marks)

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10 Ewa has five cards, each with a number written on it.



Ewa takes at random one of the cards and records the number.
She puts the card back.

Ewa again takes at random one of the cards and records the number.

She works out the difference between the numbers on the two cards to find her score.

- (a) Complete the table to show all the possible scores.
Twenty of the scores have been done for you.

		First card				
		4	5	7	10	10
Second card	4	0	1	3	6	6
	5	1	0	2	5	5
	7	3	2	0		
	10	6	5	3	0	
	10	6		3		0

(1)

- (b) Find the probability that Ewa’s score is 0

(2)

(Total for Question 10 is 3 marks)

11 Qaseem sells 300 tickets.

$\frac{1}{4}$ of the tickets are premium tickets.

The cost of each premium ticket is 14 dirhams.

The remaining tickets are standard tickets.

The cost of each standard ticket is 9 dirhams.

Work out the total cost of the 300 tickets.

..... dirhams

(Total for Question 11 is 4 marks)

12 Hugo sells x bags of potatoes and y sacks of potatoes.

Each bag contains 6 potatoes.

Each sack contains 20 potatoes.

The total number of potatoes that Hugo sells is T

Write down a formula for T in terms of x and y

.....

(Total for Question 12 is 3 marks)



- 13** Georgia makes a small cake and a large cake.
She uses a total weight of 360 grams of flour.

weight of flour for the small cake : weight of flour for the large cake = 5 : 7

- (a) Work out the weight of flour Georgia uses for the large cake.

..... grams
(2)

Georgia also uses butter to make the two cakes.

total weight of flour : total weight of butter = 9 : 4

Georgia uses a total weight of 360 grams of flour.

- (b) Work out the total weight of butter she uses.

..... grams
(2)

(Total for Question 13 is 4 marks)



- 14 The diagram shows the plan of a rectangular floor.

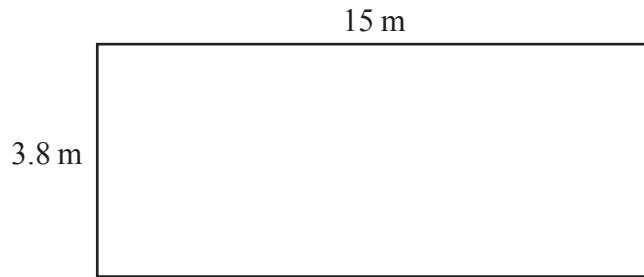


Diagram **NOT**
accurately drawn

Diego is going to paint the floor.

He buys enough tins of paint to cover the floor with one coat of paint.

Each tin of paint covers an area of 2.5 m^2

Each tin of paint costs 184 pesos.

Diego buys the least possible number of tins of paint.

Work out the total cost of the tins of paint that Diego buys.

Show your working clearly.

..... pesos

(Total for Question 14 is 4 marks)

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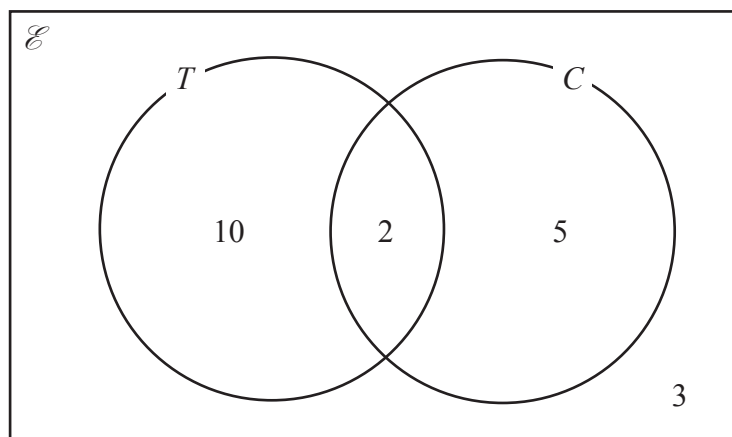


15 Show that $\frac{4}{5} \times \frac{1}{8} = \frac{1}{10}$

(Total for Question 15 is 2 marks)

16 Mrs Smith asked some students if they like tea (T) or coffee (C)

The Venn diagram shows information about their answers.



10, 2, 5 and 3 are the numbers of students in each region of the Venn diagram.

One of the students is chosen at random.

(i) Find the probability that this student does not like tea.

.....
(2)

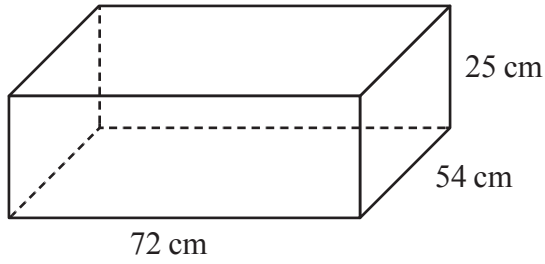
(ii) Find the probability that this student likes coffee.

.....
(2)

(Total for Question 16 is 4 marks)



17 Tom has a box and some dice.



box

Diagram **NOT**
accurately drawn



6 cm

dice

The box is a cuboid with side lengths of 72 cm, 54 cm and 25 cm
Each dice is a cube with side lengths of 6 cm

Tom packs some of these dice into the box.

The dice are packed so that they are all completely inside the box.

Work out the greatest number of dice that Tom can pack inside the box.

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(Total for Question 17 is 3 marks)



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18 Write 4500 as a product of powers of its prime factors.
Show your working clearly.

.....
(Total for Question 18 is 3 marks)



19 The n th term of an arithmetic sequence is given by $8n - 5$

- (a) Work out the ratio of the 40th term of the sequence to the 60th term of the sequence.
Give your ratio in its simplest form.

.....
(3)

Here are the first five terms of a different arithmetic sequence.

3 8 13 18 23

- (b) Find an expression for the n th term of this sequence.

.....
(2)

(Total for Question 19 is 5 marks)



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20 The table shows information about the number of hours each of 40 candles burned.

Number of hours (<i>h</i>)	Frequency
$15 < h \leq 19$	2
$19 < h \leq 23$	5
$23 < h \leq 27$	12
$27 < h \leq 31$	15
$31 < h \leq 35$	6

(a) Write down the modal class.

.....
(1)

(b) Work out an estimate for the mean number of hours.

..... hours
(4)

(Total for Question 20 is 5 marks)



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21 Sara sells water bottles.

In July, she sold 450 water bottles.
In August, she sold 612 water bottles.

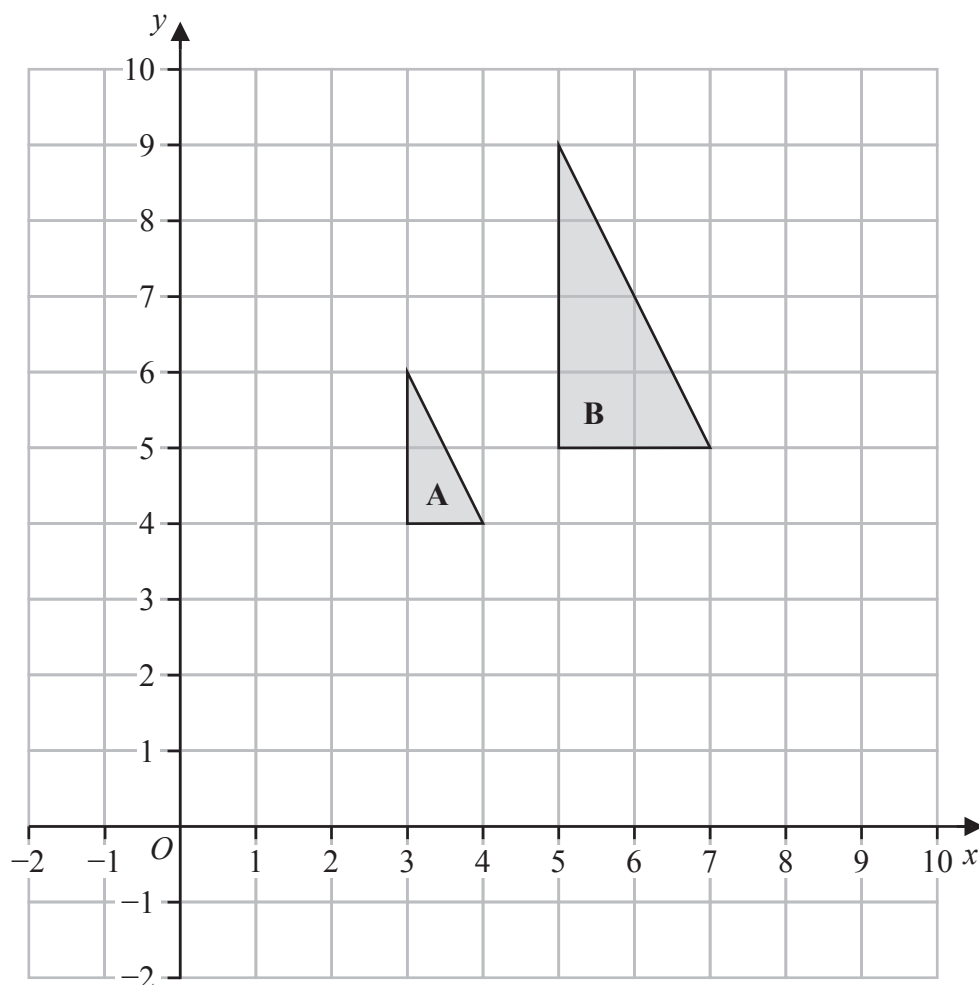
Work out the percentage increase in the number of water bottles she sold from July to August.

.....%

(Total for Question 21 is 3 marks)



22



- (a) Describe fully the single transformation that maps triangle **A** onto triangle **B**

(3)

- (b) On the grid, translate triangle **A** by the vector $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$

Label your triangle **C**

(1)

(Total for Question 22 is 4 marks)



23 $ABCDE$ is a pentagon.

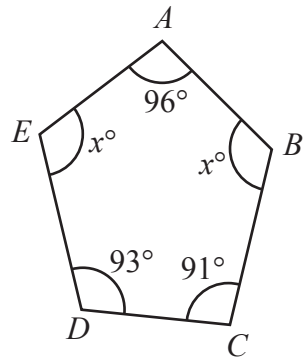


Diagram **NOT**
accurately drawn

angle $EAB = 96^\circ$ angle $BCD = 91^\circ$ angle $CDE = 93^\circ$ angle $DEA = \text{angle } ABC = x^\circ$

Work out the value of x

$x =$

(Total for Question 23 is 3 marks)



24 The diagram shows a cylinder and a prism.

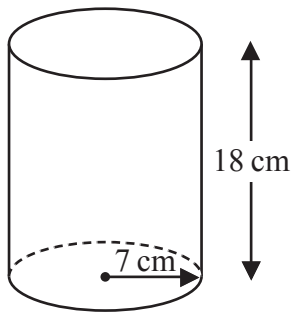
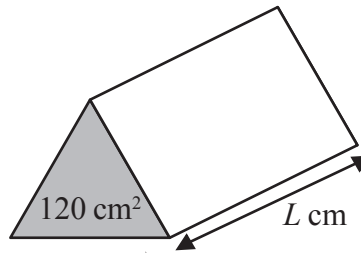


Diagram **NOT**
accurately drawn



The radius of the cylinder is 7 cm
The height of the cylinder is 18 cm

The area of the cross section of the prism, shown shaded in the diagram, is 120 cm^2
The length of the prism is $L \text{ cm}$

The volume of the cylinder is equal to the volume of the prism.

Work out the value of L
Give your answer correct to 3 significant figures.

$L = \dots\dots\dots$

(Total for Question 24 is 3 marks)



- 25** A golf club increases the cost of membership by 17%
After the increase, the cost of membership is 3276 zloty.

Work out the cost of membership before the increase.

..... zloty

(Total for Question 25 is 3 marks)

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26 (a) Find the value of $7n^0$ where $n > 0$

.....
(1)

(b) Simplify fully $(2m^5p^4)^3$

.....
(2)

(c) Factorise fully $18c^5w^2 + 30cw^3$

.....
(2)

(d) Factorise $x^2 + 6x - 27$

.....
(2)

(Total for Question 26 is 7 marks)



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27 Johan owns a car.

The current value of the car is 32 000 euros.
The value of the car will now depreciate by 15% per year.

Lena is going to save up and buy Johan’s car in 3 years’ time.
She has already saved 2516 euros.

She will save an equal amount of money each month for the next 3 years.

Work out how much money Lena needs to save each month.

..... euros

(Total for Question 27 is 4 marks)

TOTAL FOR PAPER IS 100 MARKS



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