ow before ente	ering your candidate information							
	Other names							
Centre Number Candidate Number								
Pearson Edexcel Level 1/Level 2 GCSE (9-1)								
Paper reference	1MA1/1F							
Mathematics								
PAPER 1 (Non-Calculator)								
Foundation Tier								
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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.
- Answer the questions in the spaces provided
 there may be more space than you need.
- You must show all your working.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- Calculators may not be used.

Information

- The total mark for this paper is 80
- 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.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ▶







Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Write $\frac{3}{10}$ as a percentage.



(Total for Question 1 is 1 mark)

Write the following numbers in order of size. Start with the smallest number.

8

_7

-10

1

-2

(Total for Question 2 is 1 mark)

3 Write $\frac{9}{100}$ as a decimal.

(Total for Question 3 is 1 mark)

4 Write 327 correct to the nearest ten.

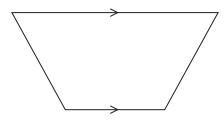
(Total for Question 4 is 1 mark)

5 Write down the value of 7^2

2

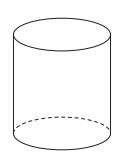
(Total for Question 5 is 1 mark)

6 (a) Write down the mathematical name of this quadrilateral.



(1)

(b) Write down the mathematical name of this 3-D shape.



(1)

(Total for Question 6 is 2 marks)

7 £42 is shared equally between 3 friends.

How much does each friend get?

£....

(Total for Question 7 is 2 marks)

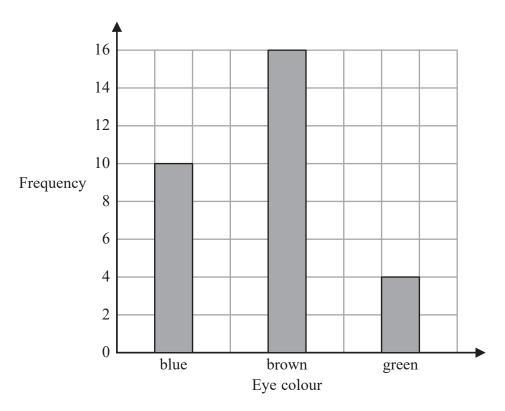


8 Grace recorded the eye colour of each of the students in her class.

The frequency table below shows her results.

Eye colour	Frequency		
blue	10		
brown	15		
green	4		

Grace then drew the bar chart below for this information.



Write down one thing that is wrong with this bar chart.

(Total for Question 8 is 1 mark)

- 9 Danny buys,
- 1 loaf of bread for £1.20
- 1 bottle of milk for 70p
- 2 packets of cheese for £2.30 each packet

Danny pays with a £10 note.

He says,

"I should get £3.30 change."

Is Danny correct?

You must show how you get your answer.

(Total for Question 9 is 3 marks)

- 10 Rachel records the temperature in her garden at noon each day.
 - On Monday, the temperature was 5 °C.
 - On Tuesday, the temperature was 10° less than the temperature on Monday.
 - On Wednesday, the temperature was 3° greater than the temperature on Tuesday.

Find the difference between the temperature on Monday and the temperature on Wednesday. You must show all your working.

°(

(Total for Question 10 is 2 marks)



	gram shows information about the number of video on Tuesday and on Wednesday.	games sold in a shop on
Monday		Key:
Tuesday	田田田	represents 8 video games
Wednesday		
Thursday		
Friday		
(a) How r	many video games were sold on Monday?	
	eo games were sold on Tuesday than on Wednesday. many more?	(1)
$\frac{1}{4}$ of thes	day and Friday, a total of 32 video games were sold e 32 video games were sold in the shop on Thursday lete the pictogram for Thursday and Friday.	

(3)

(Total for Question 11 is 6 marks)



12 There are two drama groups in a school.

In one group there are 36 boys and 48 girls.

In the other group, $\frac{3}{7}$ of the students are boys and the rest of the students are girls.

Ann says,

"The ratio of the number of boys to the number of girls is the same for both groups."

Is Ann correct?

You must show how you get your answer.

(Total for Question 12 is 3 marks)



13	A number sequence starts 1 2	2	4					
	Emma says that the next term is 7							
	(a) Explain why Emma may be correct							
						((1)	
Here are the first four terms of the sequence of triangle numbers.								
		1	3 6		10			
	(b) Find the 8th term of this sequence.							

(2)

(Total for Question 13 is 3 marks)



3 kg of carrots cost £1.802 kg of carrots and 5 kg of potatoes cost a total of £3.45

Work out the total cost of 4 kg of carrots and 2 kg of potatoes. You must show all your working.

£

(Total for Question 14 is 4 marks)

15 (a) Expand 2(a+d)

(1)

(b) Factorise $6y^2 - 5y$

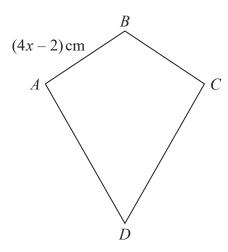
(1)

(c) Solve 4x - 7 = 37

 $x = \dots$ (2)

(Total for Question 15 is 4 marks)

16 ABCD is a kite.



$$AB = (4x - 2) \text{ cm}$$

Jasper says that x could be 0.5

(a) Explain why Jasper cannot be correct.

(1)

$$AD = 3AB$$

The kite has a perimeter of 64 cm.

(b) Find the value of *x*.

x = (3)

(Total for Question 16 is 4 marks)

17 Heidi wants to make some biscuits using this recipe.

Makes 12 biscuits

125 g butter 200 g flour 50 g sugar

Heidi thinks that she has,

500 g butter 700 g flour 250 g sugar

Assuming that these weights are correct,

(a) work out the greatest number of biscuits Heidi can make. You must show all your working.

(4)

Heidi is wrong.

She has more than 250 g of sugar.

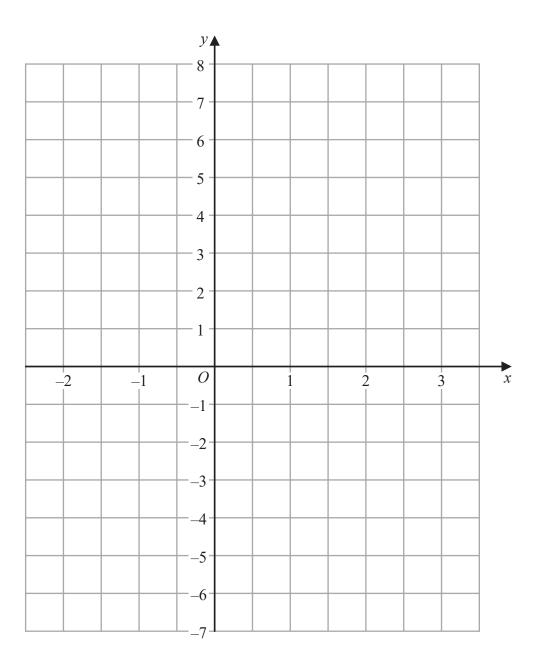
(b) Does this affect the greatest number of biscuits Heidi can make? Give a reason for your answer.

(1)

(Total for Question 17 is 5 marks)



18 On the grid below, draw the graph of y = 2x - 2 for values of x from -2 to 3



(Total for Question 18 is 3 marks)



19 Robin buys a watch for £80 He sells the watch for £56

Work out his percentage loss.

.....

(Total for Question 19 is 3 marks)



20 (a) Work out 3.67×4.2

(

(b) Work out 59.84 ÷ 1.6

(3)

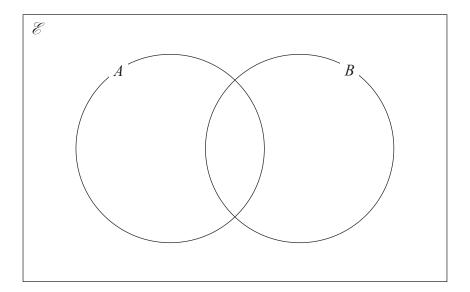
(Total for Question 20 is 6 marks)

21 \mathscr{E} = {even numbers less than 19}

$$A = \{6, 12, 18\}$$

$$B = \{2, 6, 14, 18\}$$

Complete the Venn diagram for this information.



(Total for Question 21 is 3 marks)

22 Work out
$$4\frac{1}{5} - 2\frac{2}{3}$$

Give your answer as a mixed number.

(Total for Question 22 is 3 marks)

23 At the end of 2017

the value of Tamara's house was £220 000 the value of Rahim's house was £160 000

At the end of 2019

the value of Tamara's house had decreased by 20% the value of Rahim's house had increased by 30%

At the end of 2019, whose house had the greater value? You must show how you get your answer.

(Total for Question 23 is 4 marks)



24 Rosie, Matilda and Ibrahim collect stickers.

number of stickers Rosie has: number of stickers Matilda has: number of stickers Ibrahim has = 4:7:15

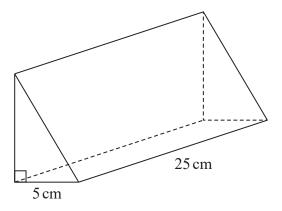
Ibrahim has 24 more stickers than Matilda.

Ibrahim has more stickers than Rosie.

How many more?

(Total for Question 24 is 3 marks)

25 The diagram shows a prism.



The cross section of the prism is a right-angled triangle. The base of the triangle has length 5 cm

The prism has length 25 cm The prism has volume 750 cm³

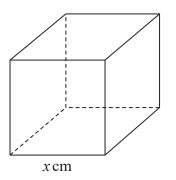
Work out the height of the prism.

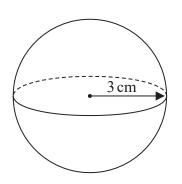
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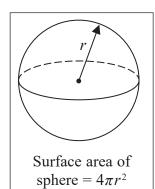
(Total for Question 25 is 3 marks)



26 The diagram shows a cube with edges of length x cm and a sphere of radius 3 cm.







The surface area of the cube is equal to the surface area of the sphere.

Show that $x = \sqrt{k\pi}$ where k is an integer.

(Total for Question 26 is 4 marks)

27 Freddie measured the length of a pencil as 7.2 cm correct to 1 decimal place.

Complete the error interval for the length, p cm, of the pencil.

..... ≤ *p* <

(Total for Question 27 is 2 marks)

- **28** The equation of a straight line **L** is y = 3 4x
 - (i) Write down the gradient of L.

(1)

(ii) Write down the coordinates of the point where L crosses the y-axis.

(...., (1)

(Total for Question 28 is 2 marks)

TOTAL FOR PAPER IS 80 MARKS

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