Write your name here		
Surname	Oth	er names
In the style of: Pearson Edexcel Level 1/Level 2 GCSE (9 - 1)	Centre Number	Candidate Number
Mathamat		
mainemai	ICS	
Number	ICS	Foundation Tier
Number GCSE style questions arr	anged by topic	Foundation Tier Paper Reference TMA1/1F

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.
- Calculators may not be used.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out**.

Information

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



Turn over 🕨



1(a)	Work out 7500 + 1500		
	Write your answer in words.		
		(2)	
1(b)	Write 4748 to the nearest hundred.		
		(1)	
1(c)	What is the value of the digit 5 in the number 425	986?	
		(1)	
1(d)	Write down the positive square root of 121.		
		(1)	
1(e)	Which of these is equal to one million?		
	Chele your answer.		
	10^3 10^4 10^5	10 ⁶	10 ⁷
		(1)	
	(Total for Ques	stion 1 is 6 m	narks)
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2	Use the numbers from this list to answer the questions.						
5	12	17	25	28	30	42	49
(a)	Write down all	the multipl	es of 5.				
(b)	Write down all	the factors	of 100.		(2)		
(c)	W rite down a	square num	ber.		(2)		
(d)	W rite down th		s that have a	sum of 60.	(1)		
		••••••	and	and	1		
					(1) (Total for O	uestion 2	is 6 marks)
	Here are two n	numbers.			(10001101 2		
		forty t	thousand	7500			
	Which number i	s bigger?					
	Give a reason fo	or your answe	er.				
	Bigger number						
	Reason						
				(Total	for Question	1 3 is 2 m	(2) arks)

4	 <i>w</i>, <i>x</i> and <i>y</i> are three positive whole numbers. <i>w</i> is one-fifth of <i>y</i>. <i>x</i> is one-sixth of <i>y</i>. <i>y</i> is less than 100. What values could <i>y</i> take?
	(5)
	(Total for Question 4 is 5 marks)
5	The numbers 13 and 17 are consecutive prime numbers.The number halfway between them is 15.15 is not a square number.Find a pair of consecutive prime numbers less than 30 where the number halfway between them is a square number.
	and
	(2)
	(Total for Question 5 is 2 marks)
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Work out $8^2 \div 4^3$	
	(2)
7 You are given that $34.7 \times 25 = 867.5$	
a) Write down the value of 347×25	
•••••••••••••••••••••••••••••••••••••••	(1)
b) Write down the value of $86.75 \div 25$	
(c) Work out the value of 34.7×26	(1)
(Total for Question 7 is 4 marks)	(2)
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8 A tin of baked beans costs 30p.

A shop has a special offer on the baked beans.

Special offer			
Pay for 2 tin 30p	ns and ge	t 1 tin free Free	

Helen wants 12 tins of baked beans.

(a) Work out how much she pays.

£

(3)

The normal price of a toaster is $\pounds 30$

In a sale, the price of the toaster is reduced by 15%.

(b) Work out the sale price of the toaster.

£

(3)

(Total for Question 8 is 6 marks)



Use the information that	
$324 \times 46 = 14904$	
to find the value of	
(a) 3.24×4.6	
	(1)
(b) 0.324×0.46	(1)
(0) 0.32100.10	
	(1)
(c) $14904 \div 4.6$	
	~4\
	(1) (Total for Question 11 is 3 marks)
	(Total for Question 11 is 5 marks)
$2x^2 = 72$	
(a) Find a value of x .	
	(2)
(b) Express 72 as a product of its prime factors	
	(2)

13 Here are the ingredients needed to make 8 pancakes.

Pancakes Ingredients to make 8 pancakes
300 m <i>l</i> milk 1 egg 120 g flour 5 g butter

David makes 24 pancakes.

(a) Work out how much milk he needs.

	ml
	(2)
Louis makes 12 pancakes.	

(b) Work out how much flour he needs.

(Total for Question 13 is 4 marks)

14 Shagufta has a part-time job.

She is paid £5.60 for each hour she works. Last week Shagufta worked for 24 hours. Work out Shagufta's total pay for last week.

£

(Total for Question 14 is 3 marks)

15 Here are the ages, in years, of 15 teachers.

34	53	41	28	37
22	32	40	50	34
44	28	45	45	55

Draw an ordered stem and leaf diagram to show this information. You must include a key.

Key:

(Total for Question 15 is 3 marks)

16	Using the information that			
		$4.8 \times 36 = 172.8$		
	write down the value of			
	(a) 48×36			
				(1)
	(b) 4.8×3.6			
				(1)
	(c) 172.8÷48			
				(1)
			(Total for Question 16 i	is 3 marks)

17 This rule is used to work out the total cost, in pounds, of hiring a bicycle.

Multiply the number of days' hire by 3

Add 6 to your answer

Peter hires a bicycle.

The total cost is £18

(a) Work out for how many days he hires the bicycle.

..... days (2)

(b) Write down an expression, in terms of n, for the total cost, in pounds, of hiring a bicycle for n days.

.....

(2)

(Total for Question 17 is 4 marks)





(Total for Question 20 is 2 marks)

21	(a)	Write down the reciprocal of 5
	(b)	Work out the value of $2\frac{4}{5} - 1\frac{3}{4}$
		Give your answer as a fraction in its simplest form.
	(c)	Derek says that $4\frac{1}{3}$ is equal to 4.3 (3) Derek is wrong. Explain why.
		(1)
		(Total for Question 21 is 5 marks)
W	ww.bl	and.in

22	Write the following Start with the smalles	numbers in or t number.	der of size.			
		0.61	0.1	0.16	0.106	
				 (T	otal for Question 22 is 1 mark)	
23	Write 0.037 as a frac	ction.				
				(T	otal for Question 23 is 1 mark)	
24	Write down the 20th	odd number.				
				(T	otal for Question 24 is 1 mark)	
25	Write down all the f	actors of 20				
				(T	otal for Question 25 is 2 marks)	
				(1	otal for Question 25 is 2 marks)	
W	ww.bland.in					

26	Tara needs to buy chocolate bars for all the children in Year 7
	Each of the 130 children get one chocolate bar.

There are 8 chocolate bars in each packet.

Work out the least number of packets of chocolate bars that Tara needs to buy.

(Total for Question 26 is 3 marks)

.....

27 Sophie has three tiles.Each tile has a different number on it.Sophie puts the three tiles down to make a number. Each number is made with all three tiles.

How many different numbers can Sophie make?

 $\boxed{1}\boxed{2}\boxed{3}$

(Total for Question 27 is 2 marks)

28	One day Shagufta earned £60 She worked for 8 hours.
	Work out Shagufta's hourly rate of pay.
	£
	(Total for Question 28 is 2 marks)
29	Work out 15% of 80
	(Total for Question 20 is 2 marks)
30	There are 3 red beads and 1 blue bead in a jar. A bead is taken at random from the jar.
	What is the probability that the bead is blue?
	(Total for Question 30 is 1 mark)
31	There are only black pens and green pens in a box. The ratio of the number of black pens in the box to the number of green pens in the box is 2 : 5
	What fraction of the pens are black?
W	ww.bland.in (Total for Question 31 is 1 mark)

32	Ron organised an event for a charity.	
	Each ticket for the event cost £19.95 Ron sold 395 tickets.	
	Ron paid costs of £6000 He gave all money left to the charity.	
	(a) Work out an estimate for the amount of money Ron gave to the charity.	
		£(3)
	(b) Is your answer to (a) an underestimate or an overestimate? Give a reason for your answer.	
		(1)
	(Total for Question 32	is 4 marks)

33	Here are some pr	operties of num	Ders		
55		Even			
	B	Odd			
	C	Prime			
	D	Square			
	E	Two-digit			
		C			
(a)	Which two properti	es does the num	ber 4 have?		
	Circle the correct	letters.			
	А	В	С	D	Е
(b)	Can one number h	ave all of the pro	operties?		
	Tick a box.				
	Vag		No		Connot tall
	Ies		100		
	Give a reason for	your answer.			
		5			
		••••••			
					(2)
(c)	Write down a num	ber with three o	f the properties.		
	State which prop	erties it has.			
		Numbe	er	•••••	
		Propert	ies,		,
					(2)
			(То	tal for Quest	ion 33 is 4 marks)
www.	bland.in				

34	(a)	Round 27 146 correct to	
		(i) the nearest ten,	
		(ii) the nearest thousand.	(1)
(Ъ)	The width of a bench. b. is 984.8 cm correct to	(1) one decimal place.
(~)	Write down the error interval for the width of t	he bench
((c)	(i) Write 856 000 000 in standard form.	≤ <i>b</i> <(2)
		(ii) Write 4.31×10^{-3} as an ordinary number.	(1)
((d) ∛2	Work out. $\overline{27} + \sqrt{25}$	(1)
			(2)
www	v.bla	nd.in (Te	otal for Question 34 is 8 marks)

35 (a) Insert one of <, > or = to make each statement true. (i) -5-7 (1) (ii) 0.09 0.8 (1) (iii) 6² 12 (1) (b) Work out the value of $5^2 \times 10^2$. (b) (2) (Total for Question 35 is 5 mark) 36 (a) Write numbers in the boxes below to make the statement true. $15 \times 20 = 5 \times \boxed{} = 6 \times \boxed{}$ (2) (b) Louis thinks of a number. If he cubes his number and then adds 9, he gets 17. What number is he thinking of? (b) (2) (Total for Question 36 is 4 mark)