Surname	Other r	names
In the style of: Pearson Edexcel Level 1/Level 2 GCSE (9 - 1)	Centre Number	Candidate Number
Mathemat	tics	
Fractions	I	Foundation Tier
Fractions GCSE style questions arr		Foundation Tier Paper Reference 1MA1/2F

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 be used.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out.**

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.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.







David earns a salary of £3500 per month.

He gets a pay rise of 4%.

1

Work out his new monthly salary.

.....

(3)

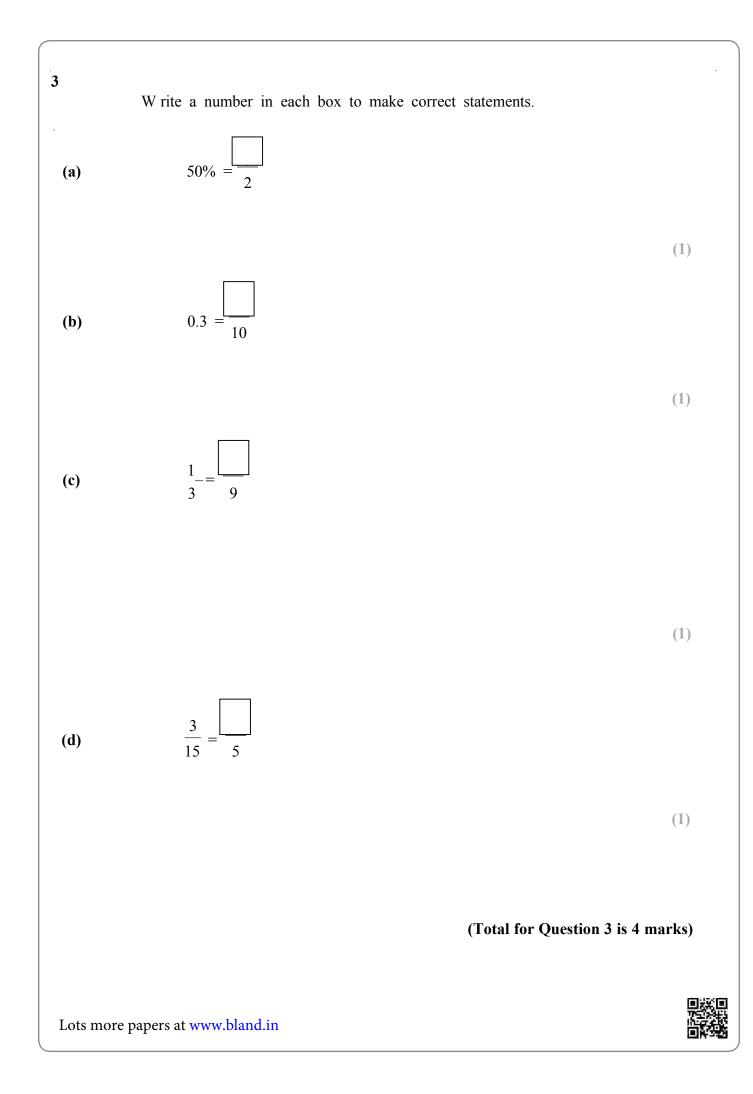
(Total for Question 1 is 3 marks)



2(a) Helen wins a race. Her time is recorded as 50.36 seconds. Andrew comes second in the race. His time is three-hundredths of a second slower. Work out Andrew's time. (2)

(Total for Question 2 is 6 marks)





Two banks calculate the yearly interest they pay customers.

Westminster Bank

4

4% of the total that you invest For example: Invest £700 Interest = 4% of £700

District Bank

1% of the first £300 that you invest 6% of amounts over £300 that you invest

For example: Invest £700 Interest =1% of $\pm 300 + 6\%$ of ± 400

Ashna has £500 to invest for one year.

Work out which bank will pay her more interest. State how much **extra** interest she will earn.

Bank

Extra Interest £.....

(Total for Question 4 is 5 marks)



There are 180 people at a wedding. 20% are children. One-half are men. The rest are women.

5

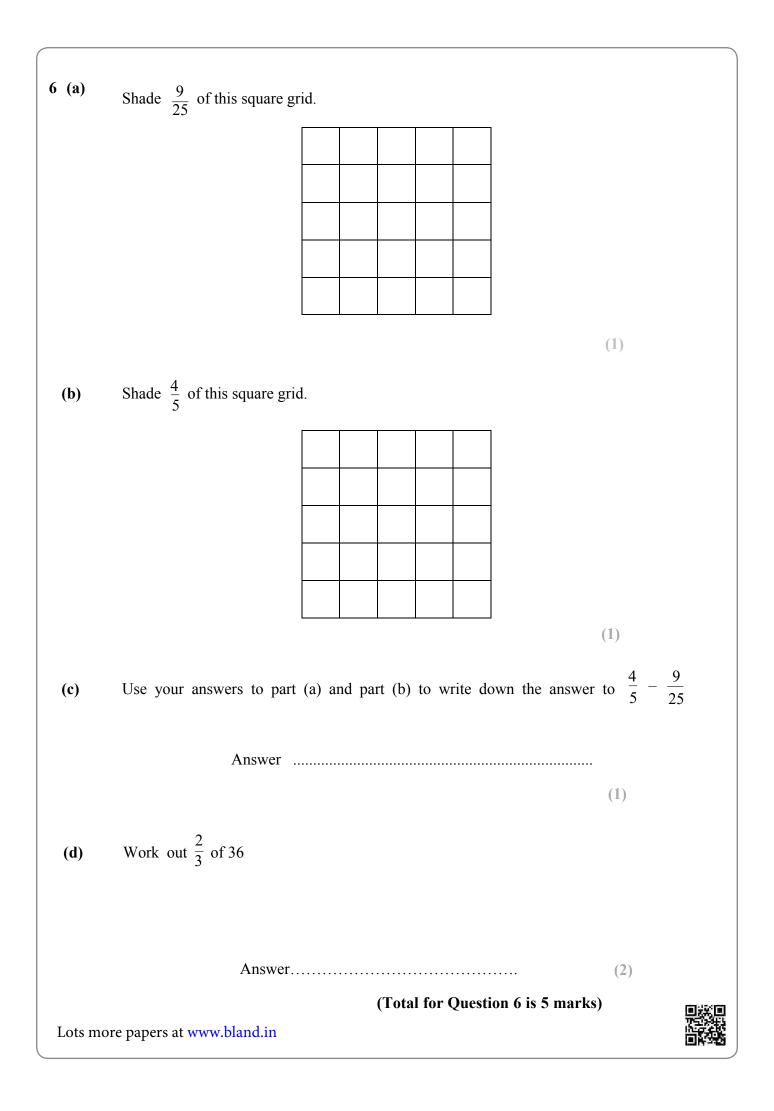
How many women are at the wedding?

Answer

(4)

(Total for Question 5 is 4 marks)





(a	l)	Use your calculator to work out	$\frac{4.7}{9.4-3.5}$	- 5			
		Write down all the figures on you	ır calculat	or disp	lay.		
							(2)
(t		Write these numbers in order of s Start with the smallest number.	size.				
		$0.82 \qquad \frac{4}{5}$	85	%	$\frac{2}{3}$	$\frac{7}{8}$	
					5	0	
							(2)
					(Total fo	r Question 7	is 4 marks)



8	A concert ticket costs £6	5 plus a	booking	charge of	15%.
---	---------------------------	----------	---------	-----------	------

Work out the total cost of a concert ticket.

£

(Total for Question 8 is 3 marks)

9 A school canteen sells salads and hot meals. In one week the number of salads sold and the number of hot meals sold were in the ratio 3:5 The total number of salads and hot meals sold in the week was 1456 Work out the number of salads sold.

(Total for Question 9 is 2 marks)

.....



10 A garage sells British cars and foreign cars. The ratio of the number of British cars sold to the number	of foreign cars sold is 2:7
The garage sells 45 cars in one week.	
(a) Work out the number of British cars the garage sold th	at week.
A car tyre costs £80 plus VAT at $17 \frac{1}{2} \%$. (b) Work out the total cost of the tyre.	(2)
The value of a new car is £14000 The value of the car depreciates by 20% per year. (c) Work out the value of the car after 2 years.	£(3)
	£(3)
(Total for Qu	estion 10 is 8 marks)
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11 There are some pens in a bag.

36 of the pens are blue.

24 of the pens are black.

(a) Write down the ratio of the number of blue pens to the number of black pens. Give your ratio in its simplest form.

.....::

There are some books and comics in a box. The total number of books and comics is 54 The ratio of the number of books to the number of comics is 1 : 5

(b) Work out the number of books in the box.

.....

(2)

(Total for Question 11 is 4 marks)



- 12 Louis invested £6500 for 2 years in a savings account.He was paid 4% per annum compound interest.
 - (a) How much did Louis have in his savings account after 2 years?

£(3)

Hassan invested £2400 for n years in a savings account.

He was paid 7.5% per annum compound interest.

At the end of the *n* years he had \pounds 3445.51 in the savings account.

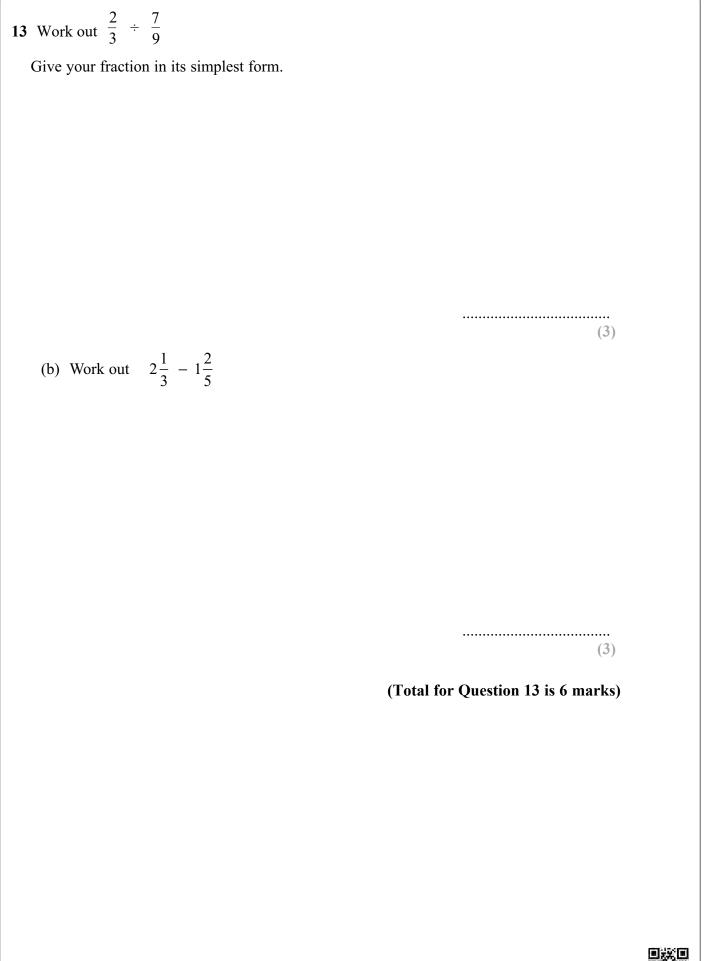
(b) Work out the value of *n*.

(2)

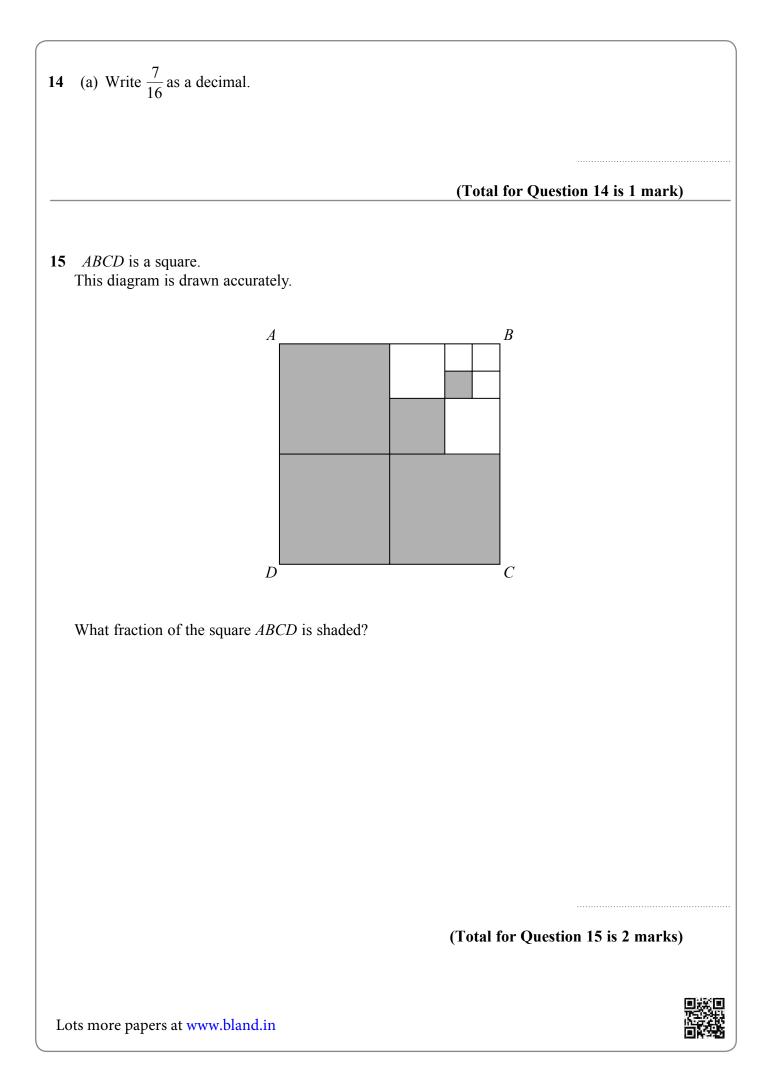
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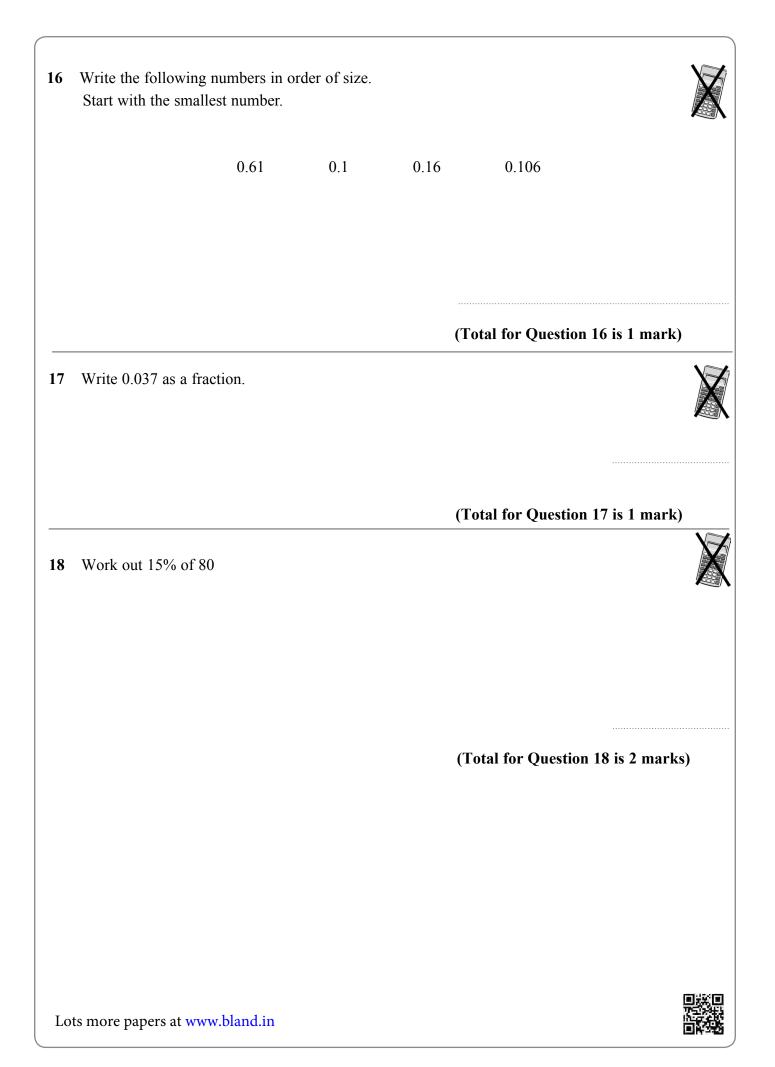
(Total for Question 12 is 5 marks)

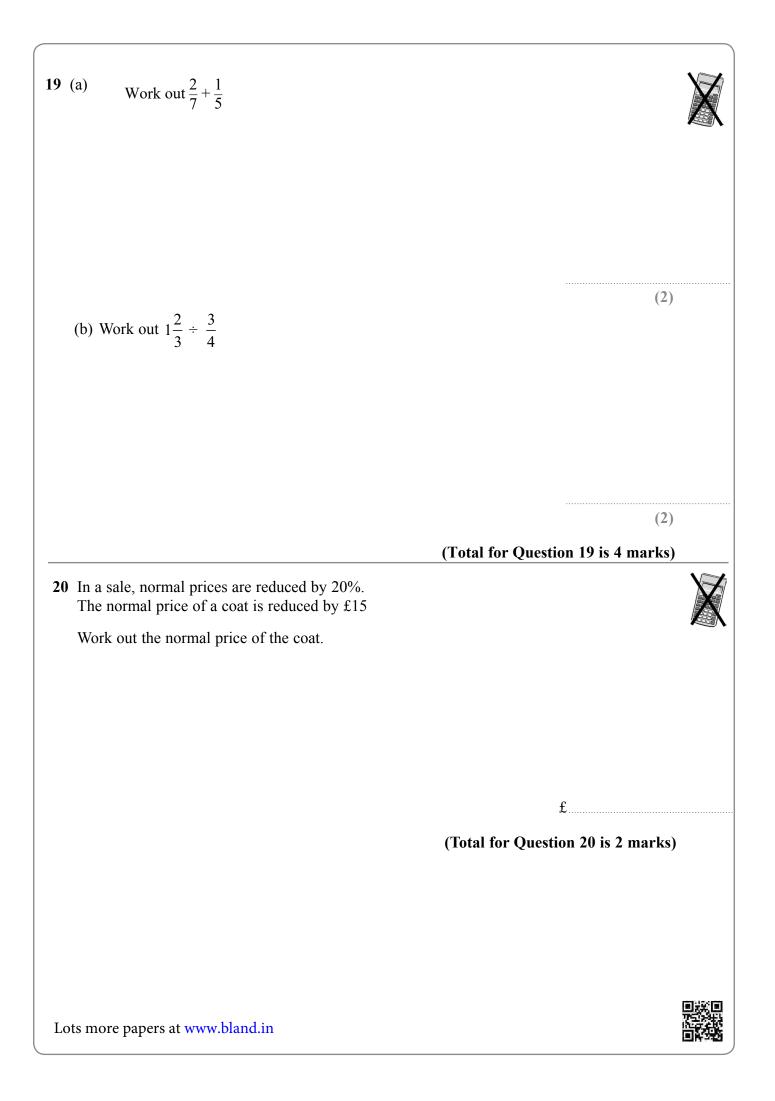












21 Work out 6.34×5.2



(Total for Question 21 is 3 marks)



2 Write the following	ng numbers ir	n order of siz	e, smallest fir	·st.	
	60.6	6.601	6.106	0.6	6.06
	sma	 ıllest			
				(To	otal for Question 22 is 3 marks)
3 Nikki organised	a wedding.				
Guests had to c			sta, chicken o	r beef.	
• $\frac{1}{3}$ of the g	guests chose p	oasta.			
• $\frac{5}{12}$ of the	guests chose	chicken.			
• 24 of the g	uests chose be	eef.			
How many gue	sts were at th	e wedding?			
				(Tota	al for Question 23 is 4 marks)
					o se



24	Sophie took a maths test. She scored 28 marks out of 40. Tara took an English test. She scored 32 marks out of 4	7.
	Tara said	
	I did better than Sophie as I scored mo	ore marks.
	By writing each score as a percentage, show that Tara is	s wrong.
		(Total for Question 24 is 3 marks)
_	25 A shop has a sale that offers 20% off all prices.	
	On the final day they reduce all sale prices by 25%.	
	Esta buys a hairdryer on the final day. Work out the overall percentage reduction on the price	of the hairdryer.
		%
		(Total for Question 25 is 6 marks)
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26	Write these in order, smallest	first.		
		0.34	$\frac{1}{3}$	3.5%
				smallest (Total for Question 26 is 2 marks)
27	7 Carol drinks $\frac{3}{8}$ of a litre of $\frac{3}{8}$	milk each b	reakfast.	
	8 Milk costs 89p for a 2-litre ca			tre carton.
	What is the smallest amount t Show your working.	hat Carol w	vould have	to spend to buy milk for one week?
				£
				(Total for Question 27 is 2 months)
				(Total for Question 27 is 3 marks)

副連

28	How many Circle you		are there in 3.7	' metres?			X
	0.	037	37	370)		(1)
29	Circle the f	raction that is	s not equivalent	t to $\frac{3}{8}$	(Total fo	r Question 28 is	1 mark)
		<u>6</u> 16	<u>9</u> 24		<u>12</u> 32	<u>15</u> 35	(1)
	Here are some	numbers.					
	9.6	12.6	15.4	7.6	12.4	17.4	
	Write the numb	oers in pairs s	to that the sum	of the numbe	rs in each pai	r is the same.	
					and		
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30	Work out 51% of 400	
		(Total for Question 30 is 2 marks)
31	Write 180 g as a fraction of 3 kg.	
	Give your answer in its simplest form.	
	Answer	
		(Total for Question 31 is 2 marks)
32	Work out $2\frac{3}{4} \times 1\frac{5}{7}$	
	Give your answer as a mixed number in its	simplest form.
	Answer	(Total for Question 32 is 3 marks)
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33	A gym has 275 members.	
00		
	40% are bronze members. 28% are silver members.	
	The rest are gold members.	
	Work out the number of gold members.	
	Answer	
	(Total for Question 33 is 3 marks)	
34	120 men and 80 women were asked if they drive to work.	
	Altogether $\frac{1}{4}$ of the people said yes.	
	1	
	$\frac{1}{3}$ of the men said yes.	
	What fraction of the women said yes?	
	Answer	
	(Total for Question 34 is 4 marks)	
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35	24 boys, 45 girls and more children join th The number of girls i How many of the 50	e club. s now 18% of the tot						
		Answer						
				for Question 35	is 4 marks)			
36	Circle the decimal th	at is closest in value	to $\frac{2}{2}$					
			3		(1)			
	0.6	0.66	0.667	0.67				
			(Total	for Question 36	is 1 mark)			
37	In 1999 the minimum wage for adults was £3.60 per hour.							
	In 2013 it was £6.31 per hour.							
	Work out the percentage increase in the minimum wage.							
		Answer		%				
			(Total	for Question 37	is 3 marks)			
					pating), ji m. a salaw			
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