<u>Number</u>

Maths Non-Calculator Past Paper Questions

Write dov	vn 0·4, 15% and	$\frac{7}{20}$ in ascending ord	er.	
You must	show all your w	orking.		[3]
	Smallest v		→ Greatest	value
Toam A a	nd Toam B play	in a competition		
Team A h	as nine more po	in a competition. oints than Team B. many points as Tea	m B.	
How man	y points does ea	ach team have?		[2]
	Team A:	points	Team B:	points

(a)	Estir	nate the value of	$\frac{41\cdot3\times29\cdot6}{198\cdot7}$.	
	You	must show all yo	our working.	[2]
(b)	Give	n that 54 × 84-2	= 4546.8, write down the exact value of each of the following.	
	(i)	540 × 842	=	[1]
	(ii)	4546·8 5·4	=	[1]
	(iii)	454·68 84·2	=	[1]

(a)	Express 700 as a product of its prime factors in index form.	[3]
(b)	The number 33 554 432 is equal to 2 ²⁵ .	
	Explain how this tells you that 33554432 is not a square number.	[1]

A whole number is written on a card.	
You are given three clues to help you work out the number on the card.	
Clue 1: Double the number is between 8 and 18 inclusive.	
Clue 2 : The number is a prime number.	
Clue 3: The number is not a factor of 100.	
What is the number on the card? You must show all your working.	3]
The number on the card is	
Calculate the value of $(5.41 \times 10^5) + (2.3 \times 10^4)$. Give your answer in standard form.	2]

CALCULATION		
23 - (4 + 2) × 3 = 5	TRUE	FALSE
$\frac{7}{10} + \frac{2}{5} = \frac{9}{15}$	TRUE	FALSE
$\frac{1}{2}$ of $\frac{1}{8} = \frac{1}{4}$	TRUE	FALSE
25% of 0·4 = 0·1	TRUE	FALSE
28 - 3 × 2 + 5 = 55	TRUE	FALSE

Space for working:

(a)	Write	e down th	e next two	numbers i	in the fol	lowing se	equence		[2]
		-19	-15	-11	-7				
(b)	Roas	s are use	d to make	a sequenc	e or patte	erns as s	nown be	elow.	
	/\		/	\\/				$/\setminus$	
Pa	attern	1	P	attern 2				Pattern 3	
	Patte	ern 1 use	s six rods.						
	(i)	How ma	any rods a	re required	to draw	Pattern 4	1?		[1]
	(ii)	Pattern How ma	37 require	s 186 rods re required	to draw	Pattern 3	38?		[1]
				•					
(0)	Door	oribo in u	ordo tho ru	ıla usad in	the fellow	uina soa	uonoo		[4]
(c)	Desc	inde in w	ords the ru	ile useu iii	trie iolio	wing seq	uence.		[1]
			243	81	27	9			
•••••									

In this question, you must use only the numbers 3 and 7 to make other numbers. You must only add or subtract.

For example, if we wanted an answer of 11, we could write

$$7 + 7 - 3 = 11$$
.

	Show	how you	can get	each of	f the	following	answers.
--	------	---------	---------	---------	-------	-----------	----------

(a)	2	[1]
	Write your solution in the box below.	
(b)	8	[1]
	Write your solution in the box below.	
(c)	19	[1]
	Write your solution in the box below. = 19	

		[3]
• • • • • • • • • • • • • • • • • • • •		
(b)	What is the Highest Common Factor (HCF) of 315 and 42?	[2]
••••		
	What is the Highest Common Factor (HCF) of 315 and 42?	

Estimate the value of

	<u>30</u>	· <u>21 × 1·98³</u> 0·49	[3]
(b)	Calculate (3·4 × 10 ⁻⁵) × 700. Give your answer in standard form.		[2]

	te each of the following.	culate each	Calc
[1]	·4 × 0·7	0·4 × 0·	(a)
[1]	3·8 – 7·45	13·8 – 7	(b)
[2]	³ – 2 ⁴	3 ³ – 2 ⁴	(c)
[2]	$\frac{3}{5}$	9/10 - 3/5	(d)

20% of 70 is the same as 70% of 20.	TRUE	FALSE
$\frac{1}{2}$ of $\frac{1}{8}$ is the same as $\frac{1}{8}$ of $\frac{1}{2}$	TRUE	FALSE
A number is halved. The answer is halved, and then this answer is halved again. This gives the same answer as dividing the original number by 6.	TRUE	FALSE
Dividing a number by 15 is the same as first dividing by 10 and then dividing the answer by 5.	TRUE	FALSE
Multiplying a number by 2·5 is the same as first multiplying by 10 and then dividing the answer by 4.	TRUE	FALSE

A shop has 31 plant pots. Some are blue, some are yellow and the rest are red. There are five more blue pots than yellow pots. There are four times as many blue pots as there are red pots.								
Calculate how many po	ts there are of each colou	г.	[3]					
Blue	Yellow	Red						

Calculation:	Answer will be:
even number + even number	even
even number + odd number	
odd number + odd number	
even number × even number	
even number × odd number	
odd number × odd number	

Find, in standard form, the value of each of the following.

(a)	7.5 × 10 ⁶ 5000	[2]
(b)	$(2.3 \times 10^3) + (6.4 \times 10^4)$	[2]

Place	Temperature at 10 a.m.	Change	Temperature at 6 p.m.
Cwmbran	2°C	Down 4°C	−2°C
Llanelli	−3°C	Down 1°C	
Llanidloes	-4°C		-1°C
Porthmadog		Up 4°C	3°C

Write 7%, $\frac{3}{5}$ and 0·3 in ascending order.	
You must show all your working.	[3]
Smallest value → Greatest value	

Find	the	whole	number	which	satisfies	all of	the	following	conditions:
------	-----	-------	--------	-------	-----------	--------	-----	-----------	-------------

- It is a whole number between 1 and 40 inclusive.
- The number is a multiple of 4 but not a multiple of 8.
- 3 is a factor of this number.

The number is a	square number.		[3]
	The whole number is	 	

(a)	Express 60 out of 300 as a percentage.	[2]	
	Answer is %		

(b) Some people were asked a question.

40% of the people answered 'Yes'. A sketch of a pie chart showing this information is shown below.

Calculate the size of angle x so that the pie chart can be drawn accurately.

[2]

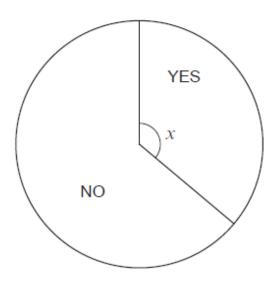


Diagram not drawn to scale

Circl	Circle the correct answer for each of the following.								
(a)	81 =						[1]		
		33	93	94	182	34			
(b)	2·1 ⁵ =						[1]		
	32.5	10-	·5	40-84101	30-84101	32·1			

(c) $(12.96)^{\frac{1}{2}} =$ [1] 6.48 3.6 4.32 3.3 2.16

<u>Number</u>

Maths Calculator Past Paper Questions

(a)	Calculate 39	% of £576.				[2]
(b)	Calculate $\frac{3}{7}$ Give your an	of 100. swer correct to t	he nearest whol	e number.		[2]
(c)	How many q	uarters are there	in 10?			[1]
(d)	What fractio	n is equal to 50%	% of $\frac{1}{6}$?			[1]
(e)	Circle the fra	ction that is a re	curring decimal.			[1]
	<u>21</u> 35	<u>10</u> 12	<u>17</u> 68	<u>15</u> 24	<u>51</u> 170	

Cal	culate the answer when,	
is n	'the largest prime number that is a factor of 28' nultiplied by 'the smallest prime number that is factor of 15'.	[2]
(a)	Calculate $\sqrt{8.5^3 + (4.5 - 0.76)^2}$, correct to 3 significant figures.	[2]
(b)	Calculate the reciprocal of −0.07, correct to 1 decimal place.	[2]

(a)	Calo		
	(i)	4·8² + √28·09	[2]
	(ii)	4/9 of 78-3	[1]
		9	
	(iii)	1000 × (the reciprocal of 8)	[2]
(b)	Write	e 437-6 correct to 2 significant figures.	[1]
18% Calc	racy in of £256 ulate th	tion, you will be assessed on the quality of your organisation, communication and writing. 6 is shared in the ratio 2: 1. e value of the larger share. enswer to the nearest 10p.	
Your	must sh	now all your working. [5 + 2 OCW]	

Wher What	n a num is the d	ber is i original	reduced numbe	d by 15% r?	%, the a	nswer i	s 6154.				[3]
Usin	g only t	he num	nbers in	the foll	owing li	st,					
		57	58	59	60	61	62	63	64	65	
write	down										
(a)	a prin	ne num	ber,								[1]
(b)	a cub	e numl	ber,								[1]
(c)	a fact	or of 18	86,								[1]
(d)	a mul	tiple of	7-25.								[1]

Place	Temperature at midday	Change	Temperature at following midday
Holyhead	−1°C	Up 3°C	2°C
Dolgellau	-3°C		1°C
Cardigan	2°C	Down 3°C	
Newport		Up 2°C	−2°C

Show clearly whether the following statement is true or false.	[4]
'If you increase a positive number by 10% and then decrease that new value get back to your original number.'	e by 10%, you

(a)	Calculate 12½% of 1176.	[2]
(b)	What is the square root of 36760? Give your answer correct to 2 significant figures.	[2]
(c)	Evaluate $\frac{4 \cdot 3 \times 8 \cdot 6}{9 \cdot 3 - 1 \cdot 4}$.	
	Give your answer correct to 1 decimal place.	[2]

	1		9		
	7	8		+	
		4	1		
Space for working:					

In this question, you will be assessed on the quality of your organisation, communication and accuracy in writing.
A task takes 6 hours 15 minutes to complete.
$\frac{2}{5}$ of this time is spent on planning.
How long was spent on the rest of the task ? Give your answer in hours and minutes.
You must show all your working. [5 + 2 OCW]

A coach company runs trips to Llandudno and Aberystwyth.

The information kept by the company about the passengers on these trips includes:

• the destination of the trip,

their ages.

The table below shows the number of passengers who went to Llandudno or Aberystwyth last Tuesday.

	Llandudno	Aberystwyth
Passengers 60 years old and over	323	217
Passengers under 60 years old	122	58

(a)	What was the ratio of passengers 60 years old and over to passengers under 60 old?	years
	Give your answer in its simplest form.	[3]
	Passengers 60 years old and over : passengers under 60 years old	
	=:	
(b)	One of these passengers was selected at random. What is the probability that this passenger went on the trip to Llandudno?	[2]

Express the original number as a percentage of the increased number.	[3]

Sian thinks of a number.

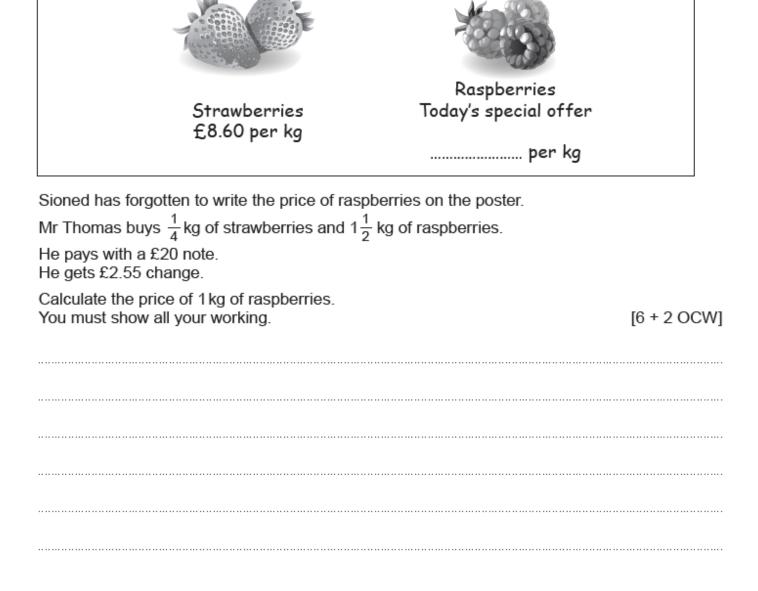
Its value is increased by 25%.

Number

Numeracy Non-Calculator Past Paper Questions

In this question, you will be assessed on the quality of your organisation, communication and accuracy in writing.

Sioned works in a grocery shop. She has made a poster for the window of the shop.



Aled	and G	Sareth went on holiday to France.							
(a)	The total cost of the holiday was £660.								
	•	Aled's mother paid $\frac{1}{3}$ of the total cost.							
	•	Aled and Gareth shared the remaining cost in the ratio 1:9.							
	(i)	Calculate how much each person paid towards the cost of the holiday.	[4]						
		Aled's mother paid £							
		Aled paid £							
		Gareth paid £							
	(ii)	Explain how you could use your answers to check that they are correct.	[1]						

.....

(a)	Sam's Garden Centre buys trees to sell.
	Sam bought 200 trees. Each tree cost Sam £25.
	22% of the trees were not sold. Sam sold all the other trees for £40 each.
	How much profit did Sam make?
	You must show all your working. [5]

Ms Logan is calculating her next water bill. She knows that her fresh water usage is 20 m³.

On the water company's website she finds the following:

Water charges

- The waste water output is calculated as 80% of the fresh water usage.
- Fresh water usage costs £1.10 per m³.
- Waste water output costs £1.50 per m³.

Calculate Ms Logan's water bill.	[4]

accuracy in writing.	
Liam buys 3kg of apples and 2.5kg of pears. Pears cost £3.40 per kilogram. Liam pays a total of £12.40 for the apples and pears.	00
Calculate the cost of one kilogram of apples.	[6 + 2 OCW]

In this question, you will be assessed on the quality of your organisation, communication and

(a) Waldo doesn't mind which type of pasta he buys.In the supermarket, Waldo sees the three packets of pasta shown below.

Strozzapreti pasta	Fusilli pasta	Rigatoni pasta
500g for £1.25	400g for 96p	250g for 65p

Which pasta offers Waldo the best value for money? You must show all your working.													[3]										

(b) An old recipe is given below.

Arrabiata pasta sauce Serves 4 people

1 onion 2 × 0.88 lb tins of tomatoes 3 chillies

	(1)	How many chillies would be needed to make Arrabiata pasta saud	ce for 48 people?
	(ii)	How many kilograms of tinned tomatoes are needed to make sauce to serve 20 people?	Arrabiata pasta
(c)	Λ na	sta factory in Italy produces 5km of spaghetti per day.	
(c)	How	many centimetres of spaghetti will this factory produce in 7 days? your answer in standard form.	[3]

Agata is paid in pesos.

The tax rates are as follows:

Band	Taxable income	Tax rate
Personal allowance	Up to 200 000 pesos	0%
Standard rate	200 000 pesos to 500 000 pesos	10%
Further rate	over 500 000 pesos	35%

Agata's total earnings before tax are 600000 pesos.

Calculate how much tax Agata is due to pay. You must show all your working.	[6]

(b)	Inside one of the boxes is an old clock. Gwilym takes the clock to be valued. It is valued at £56. The clock has decreased in value by 30% from last year. Calculate how much the clock was worth last year.	[2]



(a) Jasmine entered herself, Sophie and Bryn as a group in a talent contest. Bryn only had a minor part.

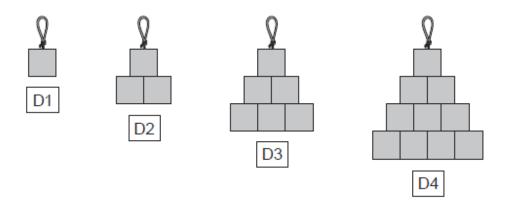
Bryn, Sophie and Jasmine won the contest. They shared the prize money in the ratio 2 : 6 : 7, with Bryn getting the smallest share. Jasmine won £560, the largest share.

How much money did Bryn and Sophie each win?	[4]
Bryn receives £	
Sophie receives £	
Jasmine gave 15% of her winnings to charity. How much did Jasmine have left?	[2]
alent contest is held once a year. year, the cost of putting on the talent contest increases by cost.	10% of the previous
nmer 2014 the cost was £6600.	
	Sophie receives £

Ollie and Josef both have jobs in a workshop that makes decorations.

They make decorations using small squares of stained glass.

(a) Ollie has made the following decorations.



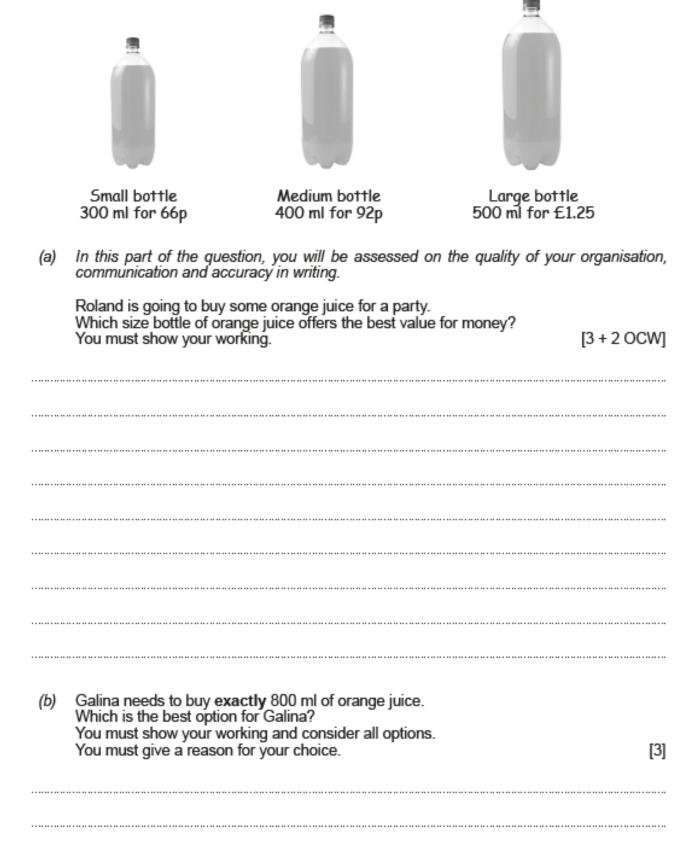
He labels the first decoration D1.

He labels the next 3 decorations in order, D2, D3 and D4.

He continues to make decorations and labels following this pattern.

indes to make decorations and labels following this pattern.	пес
ter making decoration D5, Ollie notices he only has 10 small squares of stained ass left.	(i)
ow many more squares of stained glass will Ollie need to make decoration D6? [2]	
llie uses a rule to work out how many squares he needs for each decoration. e states that to make decoration D10 he would need 55 squares. Ollie correct?	(ii)
ou must show your working. [1]	

(a)	A standard piece of A4 paper is usually 0.08mm thick. What is 0.08mm written in metres in standard form? Circle your answer.					[1]
	8 × 10 ⁴	8× 10-4	8 × 10-3	8 × 10 ³	8 × 10-5	
(b)	A piece of A stack of t	card is 1 mm thick. these pieces of car	d is 3 × 10−² metr	es high.		
	(i) Calcu	ulate how many pie	eces of card there	are in the stack.		[2]
		t assumption have				[1]



(i)						
(-)	Estima	scores 35 in his te Dyfed's score your answer.	English test. as a percentage.			
 4	%	20%	23%	44%	51%	
 (ii)	Estima	cores 22 in his V te Liam's score a your answer.	Velsh test. as a percentage.			
0.3	3%	3%	22%	31%	40%	

Marcin has a market stall to sell his printed T-shirts.

It costs him:

- £250 to buy 100 plain T-shirts,
- 50p to print a design on each T-shirt.
 Marcin sells his printed T-shirts for £4.00 each.

Marcin Sciis fiis printed 1-Shirts for 24.00 eac

At the start of the week:

- His bank account balance is £820.
- Marcin has 100 printed T-shirts ready to sell.
- He has already paid for these printed T-shirts.

During the week:

- Marcin sells his stock of 100 T-shirts.
- He pays all the money he takes from selling T-shirts into his bank account.
- He buys and prints another 400 T-shirts.
- Marcin does not sell any of these 400 T-shirts.

How much will Marcin have in his bank account at the end of this week? You must show all your working.		



Lotty and Rafael decide to enter a prize draw.

They agree to share any money they win in the ratio 2: 3 respectively.

After winning a total of £2000, they think again and decide that Lotty's share should be increased by 30%.

(i)	Rafael thinks that his share will be reduced by 30%. Without any calculation, explain why Rafael's thinking is incorrect.	[1]
(ii)	Calculate the amount of money Lotty wins after the decision is made to increher share.	ease [4]

	(iii) Find the ratio that is now used to share the money between Lotty and Rafael. Express your answer in its simplest form. [3]
•••••	
<i>h</i>)	Lotty's winnings : Rafael's winnings =: :: In another prize draw, it was planned to give £5000 as the first prize
b)	Lotty's winnings: Rafael's winnings =
b)	In another prize draw, it was planned to give £5000 as the first prize.
(b)	In another prize draw, it was planned to give £5000 as the first prize. To make it more popular, the organisers decide to increase this first prize by 26%.
(b)	In another prize draw, it was planned to give £5000 as the first prize. To make it more popular, the organisers decide to increase this first prize by 26%. The most efficient method of calculating the amount of the increased first prize is
	In another prize draw, it was planned to give £5000 as the first prize. To make it more popular, the organisers decide to increase this first prize by 26%. The most efficient method of calculating the amount of the increased first prize is $1.26\times5000.$ The second prize was planned to be £3000, but it is now decided to decrease this prize

Number

Numeracy Calculator Past Paper Questions

Luigi lives in south Wales.

Rosina lives in west Wales.

For each of the first 65 days of 2017, they recorded whether or not it rained.

Luigi recorded that it rained on 28 of these days. Rosina recorded that it rained on 40% of these 65 days.

Luigi says,

'For the first 65 days of 2017, there were more days with rain where I live than where Rosina lives.'

You must show all your working.	[3]

(a) Gustav is making some scones for his sister's birthday party.

Recipe to make 12 scones

450g self raising flour 2 teaspoons of baking powder 75g butter 50g caster sugar 2 eggs 225ml milk

Bake at 428°F for 10 to 15 minutes

(i)	How much self raising Circle your answer.	flour will Gustav n	eed to make 30 sco	ones?	[1]	
 900 g	1000 g	1100 g	1125 g	1350 g		
(ii)	In the recipe, the temp The temperature gaug The formula below is u	e on Gustav's over	shows degrees C	elsius, C.		
		$C = \frac{5F - 160}{9}$				
	At what temperature sl Give you answer in de		the scones?		[2]	
			°C			

Mali's scooter depreciated (decreased) in value by 24% in the first year. In all further years, her scooter depreciated by 13% of its previous year's value. She originally paid £850 for her scooter.		
Calculate the value of Mali's scooter after 7 years.	[3]	
After 7 years, the value of Mali's scooter was £		
The television was reduced in the sale by 26% of its original price. It cost Marta £710.40 in the sale.	roi	
What was the original price of the television?	[2]	
Original price £		

	evision uses 1 u it of electricity co	nit of electricity e osts 9.8 p.	every 10 hours.		
(i)	Calculate the c	ost of having a te wer.	elevision turned	on for 24 hours.	[1
£23.52	£2.3	35 40	.83p	23.52p	2.45p
(ii)				n each day. to watch television	i? [1
27.44 p	£27.	44 £3	39.20	39.2p	10.78 p

(a)	In this part of the question, you will be assessed on the quality communication and accuracy in writing.	of your organisation,
	Edmund needs carrots to make soup. His two local supermarkets are SuperM and FairMart.	- Marie
	450 g of carrots cost 27p in <i>SuperM</i> . The same variety of carrots cost 57p per kg in <i>FairMart</i> .	
	Edmund wants to buy carrots that are the best value for money. Should he buy carrots from SuperM or from FairMart? Give a reason for your answer.	
	You must show all your working.	[3 + 2 OCW]

(b) Edmund plans to use the recipe shown to make soup.

Carrot soup, serves 4 people
450g carrots
0.8 litres stock

4 tablespoons of cream 2 onions

He starts to write the recipe for serving 25 people.

Carrot soup to serve 25 people
g carrots
litres stock
tablespoons of cream
whole onions

Complete the recipe for Edmund. [3]

Ice skate hire charges

Hire any pair of ice skates for £3.25 PLUS £2.40 for every hour or part of an hour hired*



*any minute or more into the next hour is charged as 1 hour

(a)	How much will the total charge be for hiring these ice skates?	[2]
(b)	Beth pays £8.05 to hire ice skates. What is the minimum whole number of minutes that she could have hired the ice sfor before returning them?	

(a) On 1st June, Delyth budgets for her next electricity bill. This bill will be for the months of June, July and August. Her bill will have to be paid at the beginning of September.

She knows:

- the standing charge is £8 per month,
- her meter reading on 1st June is 20 150 kWh,
- · her estimate for her meter reading on 31st August is 20 950 kWh,
- her agreement states that electricity costs 23p per kWh,
- VAT at 5% is payable on the total of the standing charge and the cost of the electricity used.

	Calculate how much she should budget each month so that she is able to pay electricity bill.	her next
(b)	Delyth invested £500 in a saver bank account 20 years ago. She did not withdraw money or make any other payments into this account. The bank paid 2·2% compound interest per annum during the first 5 years. Compound interest at 1·6% per annum was paid for the remaining 15 years. Delyth closes the account after 20 years. How much money should she receive?	[4]

Paulo's result is 64%.

Who has the higher result in this mathematics test?
You must show all your working.

[3]

Ceri and Paulo both sit the same mathematics test.

The test is marked out of 125.

Ceri scores 78 marks in the test.

Barrels are used to store liquid. Glass containers are filled with liquid from a barrel.

The table below gives the capacity of some glass containers and their traditional names.

Capacity in litres

 (a) Complete the table to give the number of bottles equivalent to all the traditional sizes.



Traditional name

[2]

capacity in litres	Number of bottles	Traditional name	
0.75	1	Bottle	
1.5	2	Magnum	
3		Jéroboam	
4.5		Réhoboam	
6	8	Methuselah	
9	12	Salmanazar	
12		Balthazar	
Which of the following Circle your answer.	amounts does the barrel hold?		[1]
A different barrel con	les To-5 bottles	30 bottles 30 bottles	
	1.5 3 4.5 6 9 12 A barrel contains just Which of the following Circle your answer.	1.5 2 3	1.5 2 Magnum 3 Jéroboam 4.5 Réhoboam 6 8 Methuselah 9 12 Salmanazar 12 Balthazar A barrel contains just enough liquid to fill 3 Salmanazars and 1 Magnum. Which of the following amounts does the barrel hold? Circle your answer.

Number of bottles

(a)	$\frac{6}{11}$ of Jenna's friends have pets.	
	Of these friends with pets, $\frac{2}{3}$ of them have a dog.	
	Use this information to answer each of the following questions.	
	(i) Jenna has 33 friends. How many of her friends have a pet?	[2]
	(ii) What fraction of Jenna's friends have a dog?	[2]
(b)	120 people were surveyed. They were each asked which is their favourite pet: dog, cat or fish. The numbers who answered dog, cat and fish were in the ratio 63 : 39 : 18.	
	Express this ratio in its simplest terms.	[1]

Arianna's pizzeria

All pizzas £8.80 each

Special offers

Buy 1 pizza, get 1 pizza free OR 35% off the price of every pizza

(a)	In this part of the question, you will be assessed on the quality of your o communication and accuracy in writing.	rganisation,
	Lowri orders 3 pizzas. She wants to pay the least amount possible. Which offer should Lowri ask for?	
	Buy 1 pizza, get 1 pizza free 35% off the price of every pizza	
	You must give the total cost of each of the offers. You must show all your working.	5 + 2 OCW]
(b)	Noah wants to order 10 pizzas. Explain why 'buy 1 pizza, get 1 pizza free' would be the better of the 2 offers. Do not use any calculations.	[1]

(a) Rowan lives in New Zealand.

Rowan wants to post a number of packages. He has 10 of each of the following stamps.















1 New Zealand dollar (\$1) = 100 cents (100c)

Rowan wants to:

- · put the correct postage on each package,
- · use as few of his stamps as possible.

Select the stamps he needs to post each of the following packages.

(1)	Documents, postage \$3.60	[2]
oonoo		

(ii)	Birthday present, postage \$7.40	[2]

(b)	Rowan is coming to Wales on holiday. The conversion rate at the exchange shop is $$1 = £0.53$. The exchange shop only has £10 and £20 notes.
	Rowan only has \$550 saved. He wants to exchange as close to \$550 as possible. He asks for as few notes as possible.
	Calculate:

Loretta is paid in euros. She is checking her tax bill for last year.

The tax rates last year were as follows:

- No tax on the first €3500 of earnings
- Earnings in excess of €3500 and up to €10 500: taxed at a rate of 25%
- Earnings above €10 500: taxed at a rate of 35%

Last year, Loretta's total earnings before tax were €34 500.

How much tax did Loretta pay in total? You must show all your working.	[6]

Ewan is going on holiday to India. He has saved £450 to exchange for Indian rupees.

(a)	The exchange rate on the internet last week was £1 = 99.40 rupees. Had Ewan been going on holiday last week, how many rupees could he have bought	t? [2]
(b)	Ewan exchanges his money on arrival in India. The exchange rate is now £1 = 99.72 rupees.	
	The exchange bureau only has 500 rupee notes. Ewan wants to buy as many rupees as possible with his £450 savings.	
	How much of his £450 will Ewan spend buying rupees? Give your answer correct to the nearest penny. You must show all your working.	[4]

(a) In this part of the question, you will be assessed on the quality of your organisation, communication and accuracy in writing.

Railcard for 16 to 25 year olds £30 for a year Get $\frac{1}{3}$ off all your rail travel

Nerys and Eleri are sisters.

Nerys is 22 years old and Eleri is 27 years old.

The two sisters live in Holyhead.

Their aunt lives in Milford Haven.

They travel by train to visit their aunt 3 times a year.

Nerys buys a 16-25 Railcard to use for these journeys.

They buy single rail tickets for each journey.

The cost of a single rail ticket from Holyhead to Milford Haven is £84.50.

The journey home from Milford Haven also costs £84.50 per ticket.

back? You must show all your working.	[5 + 2 OCW]

In a year, how much less does Nervs pay than Eleri for the journeys to Milford Haven and

(b)	Cristiano is 22 years old. He sometimes travels from Rhyl to Llandudno Junction by train. The cost of a single rail ticket from Rhyl to Llandudno Junction is £7.80.
	Nerys advises Cristiano to buy a Railcard. Cristiano says,
	It is not worth paying £30 for the Railcard.
	How many times in a year would Cristiano have to travel to make it worthwhile for him to buy a Railcard? [3]



(a) The total area of all the woodlands in Wales is 303 000 hectares.

Individual woodlands that have an area of 2000 hectares or more make up 76% of the total area of all the woodlands in Wales.

Complete the following statement.