	Nat 4 Added Value – Paper 1A				
1	Siobhan wants to buy some new boots in the January sales. They are priced at £130 but have 20% off in the sale. How much will Siobhan pay for her boots?				
2	A Maths textbook cost £9.49.How much will it cost to buy 8 new textbooks?				
3	Dean mixes 1.48 litres of orange squash with 6.2 lites of water to make an orange drink. He uses 5.85 litres of the drink at a children's party. How much of the orange drink does he have left?				
4	A bed shop is having a sale. ALL BEDS $\frac{2}{5}$ OFF THE NORMAL PRICE The normal price of a bed is £760. Find the sale price of this bed.				
5	Enlarge this shape using a Scale factor of 3/2				

	Nat 4 Added Value – Paper 2A								
1	A Sprinter train travels at an average speed of 144 kilometres per hour. The train takes 1 hour 12 minutes to travel between Dingwall and Aberdeen. Calculate the distance between Dingwall and Aberdeen.								
2	Solve algebraically $7t - 3 = t + 45$								
3	A children's playground is to be fenced The fence is made in sections using lengths of wood as shown below.								
	1 section								
		2 sections							
		3 sections							
	(a) Copy and complete the table below.								
	Number of sections (<i>s</i>)	1	2	3	4	5		12	
	Number of lengths of wood (<i>w</i>)	6	11						
 (b) Write down a formula for calculating the number of lengths of work (w), when you know the number of sections (s). (c) A fence has been made from 81 lengths of wood. How many sections are in this fence? Show all of your working. 					vood				

4	An earring in the shape of an isosceles triangle
	is made from silver wire.
	The dimensions of the earring are \wedge
	shown on the diagram 5 cm 5 cm -3 cm
	Calculate the length of silver wire needed to make a pair of earrings.
5	A boat elevator is used to take a boat from the lower canal to the upper canal. The boat elevator is in the shape of a triangle. The length of the hypotenuse is 109metres. The height of the triangle is 45 metres.
	•
	$109 \mathrm{m}$ $45 \mathrm{m}$
	Calculate the size of the shaded angle x° .
6	Simplify $2(3x+3) + 3(x-1)$

7	At the World Athletic Championships the mean time for the first semi-final of				
	the 100 metres was 9.98 seconds.				
	For the second semi-final the times, in seconds, were:				
	10.21 10.04 9.92 9.98 10.04 9.94 9.9 9.73.				
	Was the mean time for the second semi-final better than the mean time for the first semi-final? Give a reason for your answer.				
8	The floor of a conservatory consists of a rectangle and a semicircle.				
	The floor has the shape shown below.				
	The measurements are in metres.				
	Find the total area of the floor.				

Ansv	vers Paper 1A	
1	20% of 60 is £12 Pamela paid £48	
2	£9.49 x 8 = £75.92	
3	1.4 + 6.2 = 7.68 7.68 - 5.85 = 1.83 litres 1.5	
4	760 ÷5 = 152 152 x 2 = 304 Discount is £304	Sale price is £456
5	Straight lines 5 units, 3 units and 3 units change to	7.5 units, 4.5 units and 4.5 units

