Higher/Intermediate Tier Reverse Percentages

	The bill for repairing a washing machine came to £151.68, inclusive of VAT at 20%. What was the cost before VAT was added?	[3]
		•••••••••
2.	In a competition, Dewi threw the javelin 69·93 metres. This was an improvement of 8% on his previous best throw.	
	Calculate the length of his previous best throw.	[3]

		•••••
3.	A show the analysis of a bissele by 400% of its against against	
	A shop has reduced the price of a bicycle by 40% of its original price. The sale price of the bicycle is £192.	
	Calculate the original price of the bicycle.	
		[3]

1.

4	The financial	nress has i	just published	the following	headline
→.	I lic illianciai	press mas 1	ust published	the following	neaume

PURKOZI Ltd.

Annual profit £4,760,000

Down 13% from last year

What was the profit made by this company last year? Give your answer to the nearest ten thousand pounds.						
				[4		
Complete the	e table below.			ı		
	Original amount	After a de				
	Original amount	40%	2%			
	£	£492	£			

5.

[4]

6.

A shopkeeper calculates the selling price of a coat by increasing the manufacturer's price by 18%.
In a sale, the shopkeeper reduced the selling price of the coat by 15%. The sale price of the coat was £90.27.
Calculate the manufacturer's price for the coat.
[5]

Marking Scheme

1.

6.	$(£)151.68 \equiv 120\%$	B1	Accept any indication.
	(Original cost) 151.68×100 or equivalent	M1	
	120		
	=(£)126.4(0)	A1	
		3	

2. 3.

	(00/ - (0)102)	D1	A count are indication
9.	$60\% \equiv (£)192$		Accept any indication.
	(Original price) $\underline{192} \times 100$	M1	Or equivalent e.g. 192 / 0·6.
	60		
	=(£)320	A1	

4.

8. $87\% \equiv (£)4760000$	\checkmark	B1	Accept any indication.
(Last year's profit) 4760000×100	✓	M1	
87			
= (£)5471264(.368)	✓	A1	
= (£)5470000	✓	B1	F.T. from above if of equivalent difficulty.

5.

	12.				В4	B3 for 820, or
ı		Amount	After a	decrease of		B2 for $492 \times 100/60$, or
ı			40%	2%		B1 for '60% is 492', or
l		£820	£492	£803.6(0)	4	B1 for 0.98× 'their 820' correctly evaluated to nearest
l						penny or unrounded

6.

13. Idea to work with £90.27 as 85%	S1	
or considering the 2 nd step as 118% of original price		
90.27÷0.85 or equivalent	M1	Maybe implied in further working
106.2(0)	A1	
106.2(0)÷1.18	M1	FT their 106.2(0) provided >90.27
(£)90	A1	
	5	