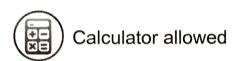
## End of Unit Test Name: Answers Fractions, Decimals and Percentages - HIGHER





1.	There are 200 students in Year 10. 110 are boys. There are 250 students in Year 11 140 are boys. Which year has the greater proportion of <b>boys</b> ? You <b>must</b> show your working.								
	110 × 100 = 55%								
	700								
	) (	140 100 - 50 %							
	140 × 100 = 56% 250								
	230								
	Answer Year 11								
					(Total	3 marks)			
2.	(a)	the same <b>a</b> the watch a	In year 1, the value of a watch increases by 12%. In year 2, the value increases by the same <b>amount of money</b> as in year 1. The owner wants to work out the value of the watch at the end of year 2. Which multiplier can be used with the original value to work this out? Circle your answer.						
		1.12	1.24	1.12 <sup>2</sup>	1.242	(1)			
	(b) In year 1, the value of a car decreases by 12%. In year 2, the value decreases 12% of the value at the end of year 1. The owner wants to work out the value car at the end of year 2. Which multiplier can be used with the original value to this out? Circle your answer.								
		0.76	0.88	0.76²	$0.88^2$				
					(Total	(1) 2 marks)			
3.		one year she			compound interest each re in the account after <b>t</b> v				
	(	%000 ×	1.03-200)	×1.03=	2430,54				
		• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • •			
			А	nswer£ 43					
					(Total	3 marks)			

		014 - 1						
				Answe	r 4850			
				7110110		(Total 3 marks)		
-	An amount of money was invested for 8 years. It earned <b>compound</b> interest at 2.5% per year. After 8 years the total value of the investment was £11 696.67  (a) Tom is trying to work out the total interest earned.							
	Interest for 8 years = £11696.67 $\times$ 0.025 $\times$ 8							
	State what is wrong with Tom's method.							
		Dividing by 1,0258 would have given						
		the original amount.						
	(b) Work out the total interest earned.							
11696.67 - (11696.67 - 1.0258)						.58)		
=11696,67-9600								
		= 207	6,67					
				А	nswer£20			
						(3) (Total 4 marks)		
ı	Which	n of these wher	converted to	decimals are	e recurring decima	ls? Circle your answers.		
(	$\left(\begin{array}{c} 1 \\ \overline{3} \end{array}\right)$	$\pi$	$\sqrt{3}$	$\frac{3}{16}$	$\left(\begin{array}{c} \frac{5}{7} \end{array}\right)$			
,				10		(Total 2 marks)		
	(a)	,	equivalent to		,			
			444		= 0,4			
		9/4	000.	6				
						(1)		

(b)	Using part (a),	or otherwise, v	write 0.94 as a	fraction.		
,	10	+ 4 =	81 + 6	- 85 - 90	= 17	
			An	swer	18	(2) (Total 3 marks)
					(Tota	l for test = 20 marks)