	Mathsgenie.co.uk Please do not wr		ite	te on this sheet Ma		thsgenie.co.uk	
1	A population of bacteria is increasing by 1 Find the percentage increase in the popular		6	Dana invests £5000 for 4 years in a saving She gets 2% per annum compound interest Dana has £5508.23 at the end of 4 years, years	st in the first yea	•	
2	A shop decreases prices by 10% and then Rachel says: "Prices have now decreased Is Rachel correct? You must show your working.	•	7	A population model assumes that the number of people living in Stoverton is increasing by $x\%$ each year.  The population is expected to increase by 60% in 6 years, work out the			
3	Alex invests some money for 3 years in a	(2 marks) savings account.		value of x. Give your answer to 1 decin	nal place.	(3 marks)	
	She gets 4% per annum compound interest Alex has £5680.56 at the end of 3 years, w		8	A car's value is decreasing by $x\%$ each years. The car will half in value in 5 years, work value of $x$ . Give your answer to 1 decin	out the	(3 marks)	
4	Bailey invests some money for 5 years in She gets 3% per annum compound interest Bailey has £3593.75 at the end of 5 years,	it.	9	The number of rabbits in a field is increased. The population is expected to double in 5 value of $x$ . Give your answer to 1 decimals of $x$ .	years, work out	•	
5	Charlie invests £2500 for 3 years in a savi She gets 3% per annum compound interes Charlie has £2705.36 at the end of 3 years	It in the first year, then $x\%$ for 2 years.	10	<ul><li>10 A car's value is decreasing by x% each year.</li><li>The car's value will decrease by 60% in 6 years, work out the value of x. Give your answer to 2 decimal places.</li></ul>			
Grade 6 Repeated Percentage Change							

Mathsgenie.co	.uk Please do not w	Please do not write on this sheet			
11 A circle's radius is increased Find the increase in the circ					
12 A circle's area is increased b Find the increase in the circ					
Give your answer to 1 decin	nal place. (4 marks)				
13 A cube's length is increased Find the increase in the cube					
Give your answer to 3 signif	icant figures.				
	(4 marks)				
14 A cube's volume is increased	1 by 25%.				
Find the increase in the cube	's length.				
Give your answer to 3 signif	icant figures.				
	(4 marks)				
Grade 6	Repeated Perc	Repeated Percentage Change			