## Compound Decay

Give your answers to a sensible degree of accuracy.

1.	A car was bought for £12 000. Its value has depreciated by 15% each year.		
	How much was it worth after:		
	a. 2 years	b. 5 years	c. 10 years?
2.	Sheila is on a diet and has been losing 3% of her weight each month. She weighed 180 kg at the beginning of her diet.		
	How much did she weigh after:		
	a. 2 months	b. 7 months	c. 1 year?
3.	There are 750 bacteria in a petri dish. An antibiotic is applied and the population of bacteria starts to decrease by 1% every hour.		
	If the decrease continues at this rate, how many bacteria will there be after:		
	a. 5 hours	b. 1 day	c. 2 days?
4.	In 2008, a football team had an average attendance of 35 000. Since then, the average attendance has been dropping by 8% every year.		
	What was the average attendance in:		
	a. 2010	b. 2015	c. 2017
5.	A new car cost £23 000. Its value has depreciated by 12.5% per year.		
	How much was it worth after:		
	a. 3 years	b. 6 years	c. 9 years?
6.	A bee colony population is decreasing at a rate of 7% per year.		
	If there are currently 34 000 bees in the colony, how many years will it take the population to drop below:		
	a. 30 000	b. 25 000	c. 10 000?

