Compound Percentage Increase

Give your answers to a sensible degree of accuracy.

1.	Laynab invests £400 in a bank account at 3% compound interest.		
	How much money is in the account after:		
	a. 2 years	b. 5 years	c. 20 years?
2.	The population of a city is 230 000. The population is expected to grow by 7% every year.		
	What is the expected population in:		
	a. 3 years	b. 8 years	c. 10 years?
3.	There are 750 bacteria in a petri dish. The amount of bacteria is increasing by 27% every hour.		
	If the growth continues at this rate, how many bacteria will there be after:		
	a. 7 hours	b. 1 day	c. 2 days?
4.	The value of an antique painting is rising by 0.6% per month. It is currently worth £35 000.		
	If the value continuates:	es to rise at this rate, he	ow much will the painting be worth
	a. 6 months	b. 1 year	c. 3 years
5.	The membership of a website is increasing by 120% every year. In January 2009 there were 420 members.		
	If the growth continued at the same rate, how many members will there be in:		
	a. January 2011	b. January 2018	c. January 2027?
6.	Billy invests £1200 in a savings account with 4.5% compound interest per year. How long will it take for Billy's savings to reach:		
	a. £1400	b. £1800	c. £2000?

