

3) The population of a town is currently 27,500. It is expected that the population will grow by a rate of 1.5% (per year) over the next five years. What will the town's population be in five years' time?

4) The value of a new car is expected to depreciate by 12.5% a year. If the car costs £17,500 now, what will be its value in three years' time?





b) What will be the balance of her account after five years?

3) Robbie bought a new car for £18,500. In the next three years the value of the car depreciated by 12% annually. What was the value of the car after three years?



## The Most Populous Country

	ANS	WERS	
Basic			
1) a) <i>x</i> > 1	b) <i>y</i> < -1	c) <i>t</i> < 2	
d) <i>v</i> ≥ 2	e) <i>d</i> ≥ 6	f) <i>m</i> < -11	
2) a) <i>x</i> > 4	b) <i>m</i> > 3	c) <i>p</i> < -4	
d) <i>b</i> < -1	e) <i>x</i> ≥ 7	f) <i>p</i> ≤ 3	
3) 29,625			
4) £11,723.63			
	Core		
1) a) <i>u</i> ≤ 9	b) <i>n</i> ≥ 12	c) <i>x</i> > 13	
d) <i>x</i> > 2	e) <i>h</i> < 2	f) <i>y</i> ≤ 6	
g) <i>x</i> > -2	h) <i>b</i> > -2	i) <i>a</i> ≤ -4	
2) a) <i>y</i> = 2	b) <i>a</i> = 4	c) <i>y</i> = 6	
3) a) <i>y</i> = 2	b) <i>x</i> = 6	c) <i>x</i> = 9	
4) £41,810.16			
5) £41,446.84			
Advanced			
1) a) <i>x</i> < -4	b) <i>a</i> > -2	c) <i>b</i> > 6	
d) <i>x</i> > 3	e) <i>x</i> <-13	<b>f</b> ) $x \le \frac{1}{2}$	
g) <i>x</i> < 1	h) <i>x</i> ≤ 0	L	
2) a) £9191.79	b) £37,691.79		