

## Essential Skills 29

The questions in this series of worksheets appear frequently.

These are the GIFTS you must take to succeed

Percentages: Appreciation and Depreciation (Calculator)



Calculate:

1. The interest earned on £3800 at 4% p.a after 3 years.
2. The population of a village after 4 years if it started with 1500 and decreases by 6% yearly
3. The number of bacteria after 3 hours if 30 are present initially and are increasing by 42% per hour.
4. The value of a ring, initially costing £799, after 3 year depreciation at 8.2% per year.
5. The volume of a 750ml jelly mould after 2 hours if decreasing by 5.6% per hour.
6. The school roll after 5 years if increasing by 8% per year from 630 initially.
7. The balance after 3 years when £240 is deposited with a 2.8% interest rate.
8. The sewage in a canal after 4 months if clearing removes 23% of the initial 238mg/litre per month.
9. The trade-in price of a car after 3 years. Bought for £13500, depreciating by 9% per year.
10. The value of a work of art, valued at £23000, after 9 years increasing by 12.5% per year.

## APPLYING QUESTION



The population of Airdrie is 39200

Motherwell has a population of 32500

If the population of Airdrie drops by 4% yearly whilst the Motherwell population rises by 5%, how long will it take before Motherwell has a greater population than Airdrie?