



Leith Academy National 5 Home Learning



PERCENTAGES

CALCULATOR

- 1) In a 15% off sale, a pair of trousers now cost £27.20. How much were the trousers before the sale?
- 2) A worker received an 8% pay rise and now earns £26568 per year. Calculate their annual pay before the pay rise.
- 3) The population of fish in a lake is due to increase by 5% every year. If the current population is 422 fish, what will be the population of fish after four years?
- 4) A smart phone decreases in value each year by 18%. If a new smart phone is £530, what will be the value of the phone after three years?
- 5) An antique is expected to increase in value by 12% in the first year and then by 9% every following year. If the antique is currently worth £560, what will it be worth after five years?
- 6) A car depreciates at 32% in the first year, 28% in the second year and then 20% for every year after. If a new car costs £34800, how much will it be worth after 4 years?
- 7) An item appreciates in value by 7% every year. If it cost £450 at the start of 2011, how much will it be worth at the start of 2016?
- 8) What does the smallest annual compound interest need to be in order to increase £100 to over £150 within 7 years? Give your answer to 1 decimal place.