**Compound percentages**

**1) £3000 is invested and 3% annual interest is added.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | START | 1 year | 2 years | 3 years | 4 years | 5 years |
| Interest | - | £900.00 |  |  |  |  |
| Amount | £3000.00 | £3900.00 |  |  |  |  |

**2) A new car costs £9000 and depreciates in value at a rate of 5% per year.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | START | 1 year | 2 years | 3 years | 4 years | 5 years |
| Depreciation | - |  |  |  |  |  |
| Value | £9000.00 |  |  |  |  |  |

**3) The mass of a radioactive substance decays at rate of 8% per month.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | START | 1 month | 2 months | 3 months | 4 months | 5 months |
| Decay | - |  |  |  |  |  |
| mass | 500g |  |  |  |  |  |

**4) An investment grows at a rate of 5.5% per year.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | START | 1 year | 2 years | 3 years | 4 years | 5 years |
| growth | - |  |  |  |  |  |
| Value | £5000.00 |  |  |  |  |  |

**5) The value of a computer depreciates at a rate of 12% per year.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | START | 1 year | 2 years | 3 years | 4 years | 5 years |
| Depreciation | - |  |  |  |  |  |
| Value | £1200.00 |  |  |  |  |  |

**6) Find a quick way to increase £390 by 4% by doing a multiplication.**

**390 x \_\_\_\_ = \_\_\_\_\_**

**7) Find a quick way to add 4 years’ compound interest at 5% per year if the original investment is £500.**

**500 x \_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_**