**Fractions Decimals and Percentages (H)**

Pre-Intervention Assessment

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Question** | **Objective** | **RAG** |
|  1 | Increase and decrease by a given percentage |  |
|  2 | Calculate with compound interest and depreciation |  |
|  3 | Calculate with reverse percentages |   |
|  4 | Convert recurring decimals to fractions |  |

**1**. A ticket to a theme park costs £35 plus 20% VAT.

Work out the total cost of the ticket.

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**2**. Helen invested £6000 for *n* years in a savings account.
She got 3% compound interest each year.

At the end of *n* years Helen had £7379.24 in her savings account.

Work out the value of *n*.
You must show your working.

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**3**. A garage sells cars.

It offers a discount of 20% off the normal price for cash.

 Dave pays £5200 cash for a car.

 Calculate the normal price of the car.

£ ...........................................................

**4**. Prove algebraically that the recurring decimal  can be written as 

[Glue here]