SPTA N5 Homework Percentages (A)

Show all working – Calculator allowed.

1. a) Dom buys a rare comic for £6500.
How much will the comic be worth if its value appreciates by 3.5% p.a. for 4 years? **(3)**

   b) Vic buys a car, also for £6500.
How much will the car be worth if its value depreciates by 5.2% p.a. for 2 years? **(3)**

2. a) John has just put £700 into a savings account where the rate of interest is 4% per annum.
How much will his savings be worth after 3 years?

   b) How long will it be before he has at least £900 in his account? **(4)**

3. Due to fire damage, the value of a painting has fallen by 34% and is now valued at £4158.
What was its value before the damage? **(3)**

4. The pressure in my car tyre should be 30psi, but a nail in it is causing it to lose pressure
at the rate of 5% every mile that I drive.

   a) What will the pressure be after 5 miles.

   b) How far can I drive before the pressure falls below 20psi? **(4)**

5. In 2022 the average house price in Scotland was £208000, an 8.6% rise since 2019.
What was average house price in Scotland in 2019? **(3)**

Total Marks: 20