SPTA N5 Homework Mixed 1

Show ALL working - Calculator only required for Questions 2 & 5

1. Evaluate: $\frac{2}{3} \, of \left(\frac{4}{7} + 1\frac{2}{5} \right)$ **(3)**

2. Linda's annual salary is £32 400. Her boss says that her salary will increase by 1.3% per annum.

What will Linda's annual salary be after 3 years? Give your answer to the nearest pound. **(3)**

3. Andy is going to bake cakes for a party. He needs $\frac{3}{5}$ of a block of butter for 1 cake.

He has 6 blocks of butter. How many cakes can Andy bake? **(3)**

4. Expand and simplify: **(a)** $(3w - 7)(2w + 4)$ **(b)** $(x - 3)^2 + 5(3x + 2)$ **(5)**

5. Gordon takes some friends out for a meal.

The restaurant adds an 8% service charge to the price of the meal, giving a total bill of £148.50.

What was the cost of the meal before the service charge was added? **(3)**

6. Factorise: **(a)** $3w^2 - 21w$ **(b)** $28x^3 + 12xy - 8xy^2$ **(3)**

Total Marks: 20