



# SPTA

## N5 Homework

### Simultaneous Equus (A)



**Show all working – NO Calculator required.**

**Marks**

1. Two lines have equations  $2x + 3y = 12$  and  $x + y = 5$ .

Find the point of intersection of the 2 lines.

**(3)**

2. Solve:  $3a + 5b = 2$

$$a = 3b + 10$$

**(3)**

3. Solve:  $3p - 2q = 4$

$$2p - 3q = 11$$

**(3)**

4. Mr. Martini is ordering tea and coffee for his cafe.

He spends exactly £108 on these each month.

In March he orders 4kg of tea and 6kg of coffee.

In April he changes his order to 8kg of tea and 3 kg of coffee.

How much do the tea and coffee cost each per kilogram?



**(5)**

5. An electrical goods warehouse charges a fixed price per item for goods delivered plus a fixed rate per mile.

The total cost to a customer 40 miles from the warehouse for the delivery of 5 items was £30.

A customer who lived 100 miles away paid £54 for the delivery of 2 items.

Find the cost to a customer who bought 3 items and lives 70 miles away.



**(6)**

**Total Marks: 20**