

# **GCSE MATHEMATICS**

## **PLC PROJECT**

**INSTRUCTIONS:**

# Formulae 1

## Content

- Substitute numbers into formulae such as  $C = \frac{(A+1)D}{9}$
- Substitute positive and negative numbers into expressions such as  $3x^2$  and  $2x$
- Rearrange linear formulae such as  $s = 4q - 7$
- Use formulae expressed in words

## Question 1

(a) Work out the value of  $2a + ay$  when  $a = 5$  and  $y = -3$

.....  
(2)

(b) Work out the value of  $5t^2 - 7$  when  $t = 4$

.....  
(3)

**(Total 5 marks)**

**Question 2**

Make  $y$  the subject of the formula

$$5x + 3y = 7$$

$$y = \dots\dots\dots$$

**(Total 2 marks)**

**Question 3**

The cost, in pounds, of hiring a car can be worked out using this rule.

Add 3 to the number of days' hire  
Multiply your answer by 10

The cost of hiring a car for  $n$  days is  $C$  pounds.

Write down a formula for  $C$  in terms of  $n$ .

.....

**(Total 3 marks)**

**Total Mark / 10**