Algebra: Quadratics, Rearranging Formulae and Identities Calculator 20 minute test 3

Answer all questions.

Simplify $x(x-5) - 2(x+5)$	[2 mai
Answer	
Allawei	
Given $y = f(x)$ and $f(x) = 3x^2 + 2$, find y when	n <i>x</i> = 7 [2 ma i

(a) Write an operation in each box to make the number machine work.

[2 marks]

2(n-7)

3 (b) Write a different set of operations in each box to make the number machine work.

[2 marks]

(n)	>	2(n-7)

A decorator uses the following formula to work out how much she charges (£ C):

$$C = 4A + 25$$

where A is the area to be decorated to the nearest square metre.

Work out the charge for a wall of dimensions 2.5m by 6.3m.

[3 marks]

Answer £

5 Rearrange $d^2 - 16a = 9$ to make d the subject.

[2 marks]

Answer

6 Show that $(x+6)(x-6) - 3 \equiv x^2 - 39$

[2 marks]

Answer

7	Factorise $x^2 - 2x - 99$	[2 marks]
	Answer	
8	Expand $(y-21)(y-4)$	[2 marks]
	Answer	