

Solving Equations Mark Scheme		
1	$x = 2$	[1]
2	$15a = 39$	[1] Multiply by 3
3	$2x = 10$	[1] Divide by 2
	$x = 5$	[1] Final answer
4(a)	$3x = 11$	[1] -2 , then divide by 3
	$x = \frac{11}{3}$	[1] Final answer
4(b)	$3x - 7 = 5$ $3x = 12$	[1] Collect like terms, and divide by 3
	$x = 4$	[1] Final answer
4(c)	$2x = 16$	[1] Collect like terms, and divide by 2
	$x = 8$	[1] Final answer
4(d)	$\frac{x}{3} = 12$	[1] $+ 5$ then multiply 3
	$x = 36$	[1] Final answer
5(a)	$2(x) + 2(x + 4)$ $4x + 8$	[1] Forming expression then simplifying
5(b)	$4x + 8 = 32$	[1] Forming equation
	$4x = 24$ $x = 6$	[1] Final answer
6(a)	$C = 55(1) + 40(2)$	[1] Forming equation
	$\text{£}1.35$	[1] Final answer
6(b)	$C = 25(1) + 15(2) + 90$	[1] Forming equation
	$25 + 30 + 90 = \text{£}1.45$ $\text{£}1.45$	[1] Final answer
7(a)	Tax is 25% of $(E - 12500)$	[1]
	$T = \frac{1}{4}(E - 12500)$	[1] or 0.25 and a different letter or word for earnings
7(b)	$5500 = \frac{1}{4}(E - 12500)$	[1] Forming equation
	$22000 = E - 12500$ $\therefore E = \text{£}34,500$	[1] Final answer

END