

Factorising Quadratics $a = 1$ Mark Scheme		
1(a)	$x^2 + 14x + 48 = (x + 8)(x + 6)$	[1] – 1 bracket correct
	$(x + 8)(x + 6)$	[1] – Final answer
1(b)	$x^2 + 13x + 42 = (x + 7)(x + 6)$	[1] – 1 bracket correct
	$(x + 7)(x + 6)$	[1] – Final answer
1(c)	$x^2 + 10x + 16 = (x + 2)(x + 8)$	[1] – 1 bracket correct
	$(x + 2)(x + 8)$	[1] – Final answer
1(d)	$x^2 + 8x + 7 = (x + 7)(x + 1)$	[1] – 1 bracket correct
	$(x + 7)(x + 1)$	[1] – Final answer
1(e)	$x^2 + 12x + 32 = (x + 4)(x + 8)$	[1] – 1 bracket correct
	$(x + 4)(x + 8)$	[1] – Final answer
2(a)	$x^2 - 10x + 24 = (x - 6)(x - 4)$	[1] – 1 bracket correct
	$(x - 6)(x - 4)$	[1] – Final answer
2(b)	$x^2 - 11x + 28 = (x - 4)(x - 7)$	[1] – 1 bracket correct
	$(x - 4)(x - 7)$	[1] – Final answer
2(c)	$x^2 - 11x + 30 = (x - 5)(x - 6)$	[1] – 1 bracket correct
	$(x - 5)(x - 6)$	[1] – Final answer
2(d)	$x^2 - 8x + 15 = (x - 5)(x - 3)$	[1] – 1 bracket correct
	$(x - 5)(x - 3)$	[1] – Final answer
2(e)	$x^2 - 4x + 4 = (x - 2)(x - 2)$	[1] – 1 bracket correct
	$(x - 2)(x - 2)$	[1] – Final answer
3(a)	$x^2 + x - 30 = (x - 5)(x + 6)$	[1] – 1 bracket correct
	$(x - 5)(x + 6)$	[1] – Final answer
3(b)	$x^2 + 2x - 35 = (x + 7)(x - 5)$	[1] – 1 bracket correct
	$(x + 7)(x - 5)$	[1] – Final answer
3(c)	$x^2 + 4x - 5 = (x - 1)(x + 5)$	[1] – 1 bracket correct
	$(x - 1)(x + 5)$	[1] – Final answer

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3(d)	$x^2 - x - 2 = (x + 1)(x - 2)$	[1] – 1 bracket correct
	$(x + 1)(x - 2)$	[1] – Final answer
3(e)	$x^2 - 4x - 5 = (x + 1)(x - 5)$	[1] – 1 bracket correct
	$(x + 1)(x - 5)$	[1] – Final answer
4(a)	$x^2 - 3x - 40 = (x - 8)(x + 5)$	[1] – 1 bracket correct
	$(x - 8)(x + 5)$	[1] – Final answer
4(b)	$x^2 + 5x + 4 = (x + 1)(x + 4)$	[1] – 1 bracket correct
	$(x + 1)(x + 4)$	[1] – Final answer
4(c)	$x^2 + 3x - 18 = (x - 3)(x + 6)$	[1] – 1 bracket correct
	$(x - 3)(x + 6)$	[1] – Final answer
4(d)	$x^2 + x - 2 = (x + 2)(x - 1)$	[1] – 1 bracket correct
	$(x + 2)(x - 1)$	[1] – Final answer
4(e)	$x^2 - 6x + 5 = (x - 5)(x - 1)$	[1] – 1 bracket correct
	$(x - 5)(x - 1)$	[1] – Final answer

END