

Overall review

Section A: Expanding Brackets		3. $3x^2 - 10x + 8$	$(3x - 4)(x - 2)$
1. $x(2x - 3)$	$2x^2 - 3x$	4. $6x^2 + 17x + 12$	$(2x + 3)(3x + 4)$
2. $(x + 1)(x - 4)$	$x^2 - 4x + x - 4$ $x^2 - 3x - 4$	Section F: a mixture	
3. $(2x + 1)(2x - 1)$	$4x^2 - 2x + 2x - 1$ $4x^2 - 1$	1. $x^2 - 10x - 24$	$(x - 12)(x + 2)$
4. $(3x - 1)(4x - 3)$	$12x^2 - 9x - 4x + 3$ $12x^2 - 13x + 3$	2. $x^2 + 8x + 15$	$(x + 3)(x + 5)$
Section B: Common Factor		8. $x^2 + 5x - 24$	$(x + 8)(x - 3)$
1. $x^2 - 3x$	$x(x - 3)$	9. $7x^2y^3 - 21xy$	$7xy(x^2y^2 - 3)$
2. $2x^2 - 6xy$	$2x(x - 3y)$	10. $x^2 + 7x + 6$	$(x + 6)(x + 1)$
3. $15a^2b + 9ab^2$	$3ab(5a + 3b)$	11. $(x - 5)(x - 2)$	$x^2 - 5x - 2x + 10$ $x^2 - 7x + 10$
4. $5a^2 - 20a$	$5a(a - 4)$	12. $3 + 2x - x^2$	$-(x^2 - 2x - 3)$ $-(x - 3)(x + 1)$
Section D: Coefficient of x^2 is 1		13. $15x^2 + 3x$	$3x(5x + 1)$
1. $x^2 + 5x + 6$	$(x + 2)(x + 3)$	14. $3x^2 + 6x - 24$	$3(x^2 + 2x - 8)$ $3(x + 4)(x - 2)$
2. $x^2 - 4x + 3$	$(x - 3)(x - 1)$	15. $(2x + y)(3x + 4y)$	$6x^2 + 8xy + 3xy + 4y^2$ $6x^2 + 11xy + 4y^2$
3. $x^2 - 3x - 10$	$(x - 5)(x + 2)$		
4. $x^2 + 2x - 24$	$(x + 6)(x - 4)$		
***Section E: Coefficient of x^2 is not 1 OPTIONAL *(challenge)*			
1. $2x^2 - x - 1$	$(2x + 1)(x - 1)$		
2. $3x^2 + 8x + 4$	$(3x + 2)(x + 2)$		