

Expanding Double Brackets : 2 : Answers

$$1) (3x+2)(2x+3)$$

$$= 6x^2 + 9x + 4x + 6$$

$$= 6x^2 + 13x + 6$$

$$2) (5x-7)(4x+3)$$

$$= 20x^2 + 15x - 28x - 21$$

$$= 20x^2 - 13x - 21$$

$$3) (2x-5)(7x-1)$$

$$= 14x^2 - 2x - 35x + 5$$

$$= 14x^2 - 37x + 5$$

$$4) (6x+7)(6x-7)$$

$$= 36x^2 - 42x + 42x - 49$$

$$= 36x^2 + 0x - 49$$

$$= 36x^2 - 49$$

$$5) (4+3x)(5+2x)$$

$$= 20 + 8x + 15x + 6x^2$$

$$= 20 + 23x + 6x^2$$

OR $6x^2 + 23x + 20$

$$6) (5-3x)(3+7x)$$

$$= 15 + 35x - 9x - 21x^2$$

$$= 15 + 26x - 21x^2$$

OR $-21x^2 + 26x + 15$

$$7) (5-2x)(9-5x)$$

$$= 45 - 25x - 18x + 10x^2$$

$$= 45 - 43x + 10x^2$$

OR $10x^2 - 43x + 45$

$$8) (3x+8)(6-5x)$$

$$= 18x - 15x^2 + 48 - 40x$$

$$= -22x - 15x^2 + 48$$

OR $-15x^2 - 22x + 48$

$$9) (7-4y)(2y-9)$$

$$= 14y - 63 - 8y^2 + 36y$$

$$= 50y - 63 - 8y^2$$

OR $-8y^2 + 50y - 63$

$$10) (5x-3)^2$$

$$= (5x-3)(5x-3)$$

$$= 25x^2 - 15x - 15x + 9$$

$$= 25x^2 - 30x + 9$$