

Topic: Breaking Brackets

01:01

$$(2x-1)(x+4)$$

$$2x^2 + 8x - x - 4$$

$$2x^2 + 7x - 4$$

01:02

$$(2y-3)^2$$

$$(2y-3)(2y-3)$$

$$4y^2 - 6y - 6y + 9$$

$$4y^2 - 12y + 9$$

01:03

$$(3a-b)(2a-5b)$$

$$6a^2 - 15ab - 2ab + 5b^2$$

$$6a^2 - 17ab + 5b^2$$

01:04

$$(2a-b)(3a+2b)$$

$$6a^2 + 4ab - 3ab - 2b^2$$

$$6a^2 + ab - 2b^2$$

01:05

$$(3a+2b)(5a-4b)$$

$$15a^2 - 12ab + 10ab - 8b^2$$

$$15a^2 - 2ab - 8b^2$$

01:06

$$3(2x-4) - 4(3x+1)$$

$$6x - 12 - 12x - 4$$

$$-12x - 16$$

Topic: Breaking Brackets

01.07

$$(x+3)(x^2+4x-12)$$

$$x^3+4x^2-12x+3x^2+12x-36$$

$$x^3+7x^2-36$$

01.08

$$(x+5)(2x^2-3x-1)$$

$$2x^3-3x^2-x+10x^2-15x-5$$

$$2x^3+7x^2-16x-5$$

01.09

$$(3x+2)(x^2+5x-1)$$

$$3x^3+15x^2-3x+2x^2+10x-2$$

$$3x^3+17x^2+7x-2$$

01.10

$$(3x+2)(x-5)+8x$$

$$3x^2-15x+2x-10+8x$$

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

01.11

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

$$5x+(6x^2-21x+4x-14)$$

$$5x+6x^2-21x+4x-14$$

$$6x^2-12x-14$$

01.12

$$5x+(x-4)(3x+1)$$

$$5x+(3x^2+x-12x-4)$$

$$5x+3x^2+x-12x-4$$

$$3x^2-6x-4$$

Topic: Breaking Brackets

01.13

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

$$6x^2 + 2x - 15x - 5$$

$$6x^2 - 13x - 5$$

01.14

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

$$4x^2 - 20x + 2x - 10 + 3x$$

$$4x^2 - 15x - 10$$

01.15

$$(3x-5)(x^2+2x-6)$$

$$3x^3 + 6x^2 - 18x - 5x^2 - 10x + 30$$

$$3x^3 + x^2 - 28x + 30$$

01.16

$$(x-4)(x^2+x-2)$$

$$x^3 + x^2 - 2x - 4x^2 - 4x + 8$$

$$x^3 - 3x^2 - 6x + 8$$

01.17

$$(x+4)(3x-1)$$

$$3x^2 - x + 12x - 4$$

$$3x^2 + 11x - 4$$

01.18

$$(x-3)(x^2+4x-1)$$

$$x^3 + 4x^2 - x - 3x^2 - 12x + 3$$

$$x^3 + x^2 - 13x + 3$$