

Factorising quadratic expressions

Factorise these quadratic expressions

Hint - attention to detail is critical

$$x^2 + 6x + 5$$

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

$$2x^2 - 9x - 5$$

$$2x^2 + 9x - 5$$

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

$$2x^2 + 11x + 5$$

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

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

$$2x^2 - 11x + 5$$

$$2x^2 + 7x + 5$$

$$x^2 - 4x - 5$$

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

Activity cards

Cut out the cards and investigate the relationship between the factors


$x^2 + 6x + 5$	$x^2 + 4x - 5$	$2x^2 - 9x - 5$
$2x^2 + 9x - 5$	$2x^2 - 3x - 5$	$2x^2 + 11x + 5$
$2x^2 + 3x - 5$	$2x^2 - 7x + 5$	$2x^2 - 11x + 5$
$2x^2 + 7x + 5$	$x^2 - 4x - 5$	$x^2 - 6x + 5$

Hint cards

Use these cards to help factorise the quadratic expressions

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

Solution

	$(x + 5)$	$(x - 5)$	$(2x + 5)$	$(2x - 5)$
$(x + 1)$	$x^2 + 6x + 5$	$x^2 - 4x - 5$	$2x^2 + 7x + 5$	$2x^2 - 3x - 5$
$(x - 1)$	$x^2 + 4x - 5$	$x^2 - 6x + 5$	$2x^2 + 3x - 5$	$2x^2 - 7x + 5$
$(2x + 1)$	$2x^2 + 11x + 5$	$2x^2 - 9x - 5$	 <p>Attention to detail is essential for success</p>	
$(2x - 1)$	$2x^2 + 9x - 5$	$2x^2 - 11x + 5$		