Factorising quadratics: harder

Exit ticket ANSWERS Name _____

1 Use the grid to factorise $3x^2 + 19x + 6$

×		
	$3x^2$	$18x$
	x	6

$(3x + 1)(x + 6)$

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

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

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

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

The Maths Habit

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NEXT LESSON

1 Use the grid to factorise $3x^2 + 19x + 6$

×		
	$3x^2$	$18x$
	x	6

(3x + 1)(x + 6)

TESTS Reading the brackets from the grid (the HCF of each row and column)

LOOK FOR

(3x + 6)(x + 1) the numbers in the wrong brackets: expand to check

(3x + 18)(x + 1) the parts of the grid written as the brackets

FIX IT

Factorise $2x^2 + 11x + 12$. *(2x + 3)(x + 4)*

---

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

(2x + 1)(x + 5)

TESTS Splitting the middle term: a × c, the pair, the grid

LOOK FOR

(2x + 10)(x + 1) the pair 10 and 1 put straight into the brackets

(x + 5)(x + 1) the 2 in front of x^2 left out

FIX IT

Factorise $3x^2 + 11x + 6$. *(3x + 2)(x + 3)*

---

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

(3x − 1)(x + 2)

TESTS Splitting the middle term with a negative

LOOK FOR

(3x + 1)(x − 2) the signs swapped: it gives $3x^2 - 5x - 2$

(3x + 2)(x − 1) a pair for −2 alone: the pair multiplies to 3 × (−2) = −6

FIX IT

Factorise $2x^2 + x - 3$. *(2x + 3)(x − 1)*