

## Completing the square dominoes

Cut along the dotted lines to create 14 domino tiles.

Match up the dominoes by completing the square for the expression on the right-hand side.

When finished, you will have one continuous loop of dominoes.

$\left(x + \frac{7}{2}\right)^2 - \frac{13}{4}$	$x^2 + 4x + 4$	$(x + 7)^2 - 45$	$x^2 + 7x + 9$
$\left(x - \frac{3}{2}\right)^2 - \frac{21}{4}$	$x^2 - 8x - 6$	$(x + 2)^2$	$x^2 + 10x + 28$
$\left(x + \frac{7}{2}\right)^2 - \frac{9}{4}$	$x^2 + 10x + 10$	$(x + 5)^2 + 3$	$x^2 - 7x - 3$
$(x + 4)^2 - 22$	$x^2 - 3x - 3$	$(x + 5)^2 - 15$	$x^2 - 10x - 6$
$\left(x + \frac{9}{2}\right)^2 - \frac{101}{4}$	$x^2 + 10x + 29$	$(x + 5)^2 + 4$	$x^2 - 9x - 1$
$\left(x - \frac{9}{2}\right)^2 - \frac{85}{4}$	$x^2 + 8x - 6$	$(x - 4)^2 - 22$	$x^2 + 7x + 10$
$(x - 5)^2 - 31$	$x^2 + 14x + 4$	$\left(x - \frac{7}{2}\right)^2 - \frac{61}{4}$	$x^2 + 9x - 5$

Answers

The tables below show the correct order of dominoes, reading down the page.

$\left(x + \frac{7}{2}\right)^2 - \frac{13}{4}$	$x^2 + 4x + 4$	$(x + 4)^2 - 22$	$x^2 - 3x - 3$
$(x + 2)^2$	$x^2 + 10x + 28$	$\left(x - \frac{3}{2}\right)^2 - \frac{21}{4}$	$x^2 - 8x - 6$
$(x + 5)^2 + 3$	$x^2 - 7x - 3$	$(x - 4)^2 - 22$	$x^2 + 7x + 10$
$\left(x - \frac{7}{2}\right)^2 - \frac{61}{4}$	$x^2 + 9x - 5$	$\left(x + \frac{7}{2}\right)^2 - \frac{9}{4}$	$x^2 + 10x + 10$
$\left(x + \frac{9}{2}\right)^2 - \frac{101}{4}$	$x^2 + 10x + 29$	$(x + 5)^2 - 15$	$x^2 - 10x - 6$
$(x + 5)^2 + 4$	$x^2 - 9x - 1$	$(x - 5)^2 - 31$	$x^2 + 14x + 4$
$\left(x - \frac{9}{2}\right)^2 - \frac{85}{4}$	$x^2 + 8x - 6$	$(x + 7)^2 - 45$	$x^2 + 7x + 9$