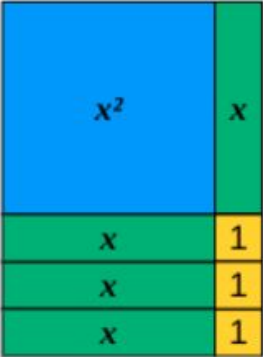
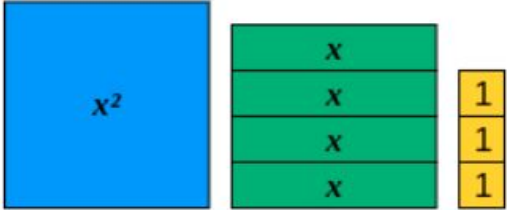
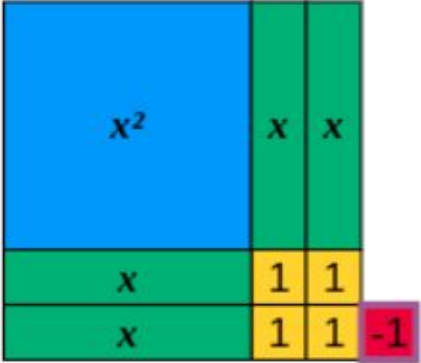
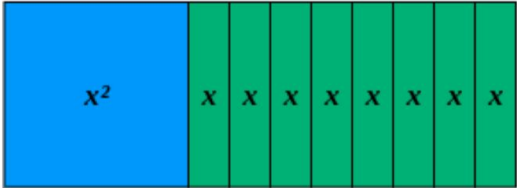
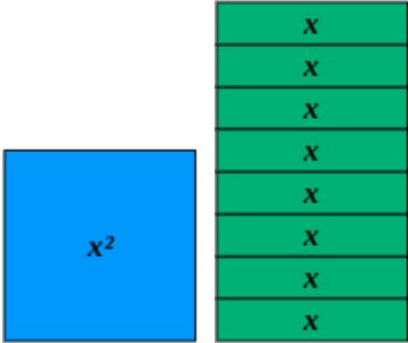
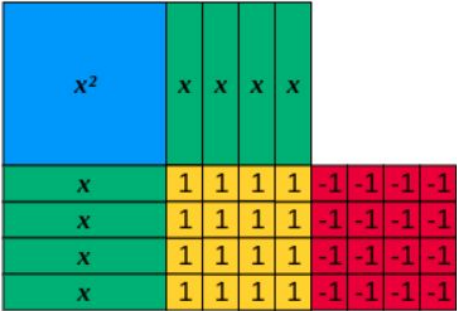


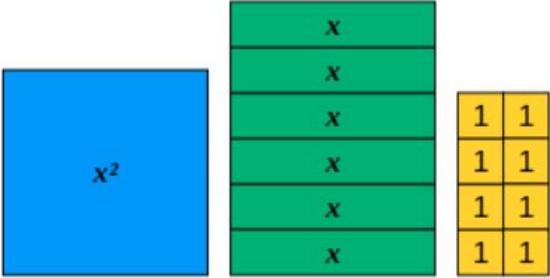
Quadratic expressions - multiple representations

	Factorised	Expanded and simplified	Completed square
Algebra tiles			
Grid/area model	$\begin{array}{c} \mathbf{x} \quad \mathbf{+1} \\ \mathbf{x} \begin{array}{ c c } \hline x^2 & +x \\ \hline \end{array} \\ \mathbf{+3} \begin{array}{ c c } \hline +3x & +3 \\ \hline \end{array} \end{array}$		$\begin{array}{c} \mathbf{x} \quad \mathbf{+2} \\ \mathbf{x} \begin{array}{ c c } \hline x^2 & +2x \\ \hline \end{array} \\ \mathbf{+2} \begin{array}{ c c c } \hline +2x & +4 & -1 \\ \hline \end{array} \end{array}$
Algebraic expression	$(x + 3)(x + 1)$	$x^2 + 4x + 3$	$(x + 2)^2 - 1$

Quadratic expressions - multiple representations

	Factorised	Expanded and simplified	Completed square
Algebra tiles			
Grid/area model	$ \begin{array}{ c c } \hline \mathbf{x} & \mathbf{+ 8} \\ \hline \mathbf{x} & \begin{array}{ c c } \hline \mathbf{x^2} & \mathbf{+ 8x} \\ \hline \end{array} \\ \hline \end{array} $		$ \begin{array}{ c c c } \hline & \mathbf{x} & \mathbf{+ 4} \\ \hline \mathbf{x} & \begin{array}{ c c } \hline \mathbf{x^2} & \mathbf{+ 4x} \\ \hline \end{array} & \\ \hline \mathbf{+ 4} & \begin{array}{ c c } \hline \mathbf{+ 4x} & \mathbf{+ 16} \\ \hline \end{array} & \mathbf{-16} \\ \hline \end{array} $
Algebraic expression	$x(x + 8)$	$x^2 + 8x$	$(x + 4)^2 - 16$

Quadratic expressions - multiple representations

	Factorised	Expanded and simplified	Completed square
Algebra tiles			
Grid/area model			
Algebraic expression			

Quadratic expressions - multiple representations

	Factorised	Expanded and simplified	Completed square						
Algebra tiles									
Grid/area model			<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">x^2</td> <td style="padding: 5px;">$- 2x$</td> <td></td> </tr> <tr> <td style="padding: 5px;">$- 2x$</td> <td style="padding: 5px;">$+ 4$</td> <td style="padding: 5px;">$- 4$</td> </tr> </table>	x^2	$- 2x$		$- 2x$	$+ 4$	$- 4$
x^2	$- 2x$								
$- 2x$	$+ 4$	$- 4$							
Algebraic expression									


Quadratic expressions - multiple representations

	Factorised	Expanded and simplified	Completed square
Algebra tiles			
Grid/area model			
Algebraic expression		$x^2 + 4x + 4$	

Quadratic expressions - multiple representations

	Factorised	Expanded and simplified	Completed square				
Algebra tiles							
Grid/area model	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">x^2</td> <td style="padding: 5px;">$- 2x$</td> </tr> <tr> <td style="padding: 5px;">$+ 4x$</td> <td style="padding: 5px;">$- 8$</td> </tr> </table>	x^2	$- 2x$	$+ 4x$	$- 8$		
x^2	$- 2x$						
$+ 4x$	$- 8$						
Algebraic expression							

Quadratic expressions - multiple representations

	Factorised	Expanded and simplified	Completed square
Algebra tiles			
Grid/area model			
Algebraic expression			

Quadratic expressions - multiple representations

	Factorised	Expanded and simplified	Completed square
Algebra tiles			
Grid/area model			
Algebraic expression	$(x + 3)(x - 5)$		

Quadratic expressions - multiple representations

	Factorised	Expanded and simplified	Completed square
Algebra tiles			
Grid/area model			
Algebraic expression			

Quadratic expressions - multiple representations

	Factorised	Expanded and simplified	Completed square
Algebra tiles			
Grid/area model			
Algebraic expression			$\left(x - \frac{3}{2}\right)^2 - \frac{1}{4}$