

Name: _____ Date: _____

Section A Expand the brackets and simplify. Use the grid method and algebra tiles to help you.

Example Expand and simplify:
 $(x + 3)(x + 4)$

		x	$+4$
		x	$1\ 1\ 1\ 1$
x	x	x^2	$x\ x\ x\ x$
$+3$	1	x	$1\ 1\ 1\ 1$
	1	x	$1\ 1\ 1\ 1$
	1	x	$1\ 1\ 1\ 1$

$x^2 + 4x + 3x + 12$
 $x^2 + 7x + 12$

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

		x	$+2$
		x	$1\ 1$
x	x		
$+5$	1		
	1		
	1		

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

		x	$+2$
		x	$1\ 1$
x	x		
$+1$	1		

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

4) $(x + 8)(x + 4)$

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

6) $(x - 5)(x + 4)$

7) $(x + 8)(x - 9)$

8) $(x - 4)(x - 1)$

9) $(2 - x)(x + 1)$

10) $(5 - x)(x - 2)$

11) $(7 + x)(3 - x)$
