

Section A Expand each single bracket using algebra tiles and the area model.

Example Expand $2(x + 3)$

	x	+ 3	
	x	1 1 1 1	
2	x x	1 1 1 1 1 1 1 1	

$2x + 6$

1) $4(x + 5)$

	x	+ 5	
	x	1 1 1 1 1 1	
4	x x x x		

2) $4(x + 3)$

	x	+ 3	
	x	1 1 1	
4	x x x x	1 1 1 1 1 1 1 1 1 1 1 1	

3) $2(x + 6)$

	x	+ 6	
	x	1 1 1 1 1 1 1 1	
2	x x		

3) $5(x + 8)$

	x	+ 8	
	x	1 1 1 1 1 1 1 1 1 1	
5	x x x x x		

4) $2(x + 5)$

	x	+ 5	
	x	1 1 1 1 1	
2	x x		

Section B Expand each single bracket using the area model.

Example Expand $7(x + 6)$

	x	+ 6	
	x	1 1 1 1 1 1 1 1	
7	7x	+ 42	

$7x + 42$

1) $7(x + 9)$

	x	+ 9	
7			

2) $8(x + 2)$

	x	+ 2	
8			

3) $8(x - 6)$

8			

4) $2(x - 1)$

2			

5) $6(x - 3)$

6			