

Name: _____ Date: _____

Section A

Expand and simplify each expression using algebra tiles and the area model.

Example $1 + 3(x + 2)$

$1 + 3x + 6 \equiv 3x + 7$

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

2) $3(x + 2) + 3x$

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

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

4) $4(2x + 3) + 7$

Section B

Expand and simplify each expression using algebra tiles and the area model.

Example $6(2x - 1) + 8$

$12x - 6 + 8 \equiv 12x + 2$

1) $6(2x - 1) - 8$

2) $5 + 3(2x - 3)$

3) $5 - 3(x + 4)$

4) $7 - 2(3x - 1)$

5) $4 - 3(3x - 2) - 5x$
