

Name: _____

Period: _____ Date: _____

Distribution & Combining Like Terms Answers

Section I. Simplify each problem. In the a column use distribution, in the b column combine like terms, and in the c column do a combination of both.

a problems – distribute

b problems – combine

c problems – do both

1a. $6(x + 7)$

1b. $6x + 8x$

1c. $6(x + 7) + 8x$

$6x + 42$

$14x$

$14x + 42$

2a. $4(x - 8)$

2b. $4x - 12x$

2c. $4(x - 8) - 12x$

$4x - 32$

$-8x$

$-8x - 32$

3a. $-5(3x - 4)$

3b. $-15x + 9x$

3c. $-5(3x - 4) + 9x$

$-15x + 20$

$-6x$

$-6x + 20$

4a. $-2(5 - x)$

4b. $2x - 13x$

4c. $-2(5 - x) - 13x$

$-10 + 2x$

$-11x$

$-11x - 10$

5a. $3x(x + 6)$

5b. $3x^2 - 9x^2$

5c. $3x(x + 6) - 9x^2$

$3x^2 + 18x$

$-6x^2$

$-6x^2 + 18x$

6a. $7x(x - 8)$

6b. $-56x + 28x$

6c. $7x(x - 8) + 28x$

$7x^2 - 56x$

$-28x$

$7x^2 - 28x$

7a. $-2x(6x - 9)$

7b. $-12x^2 - 15x^2$

7c. $-2x(6x - 9) - 15x^2$

$-12x^2 + 18x$

$-27x^2$

$-27x^2 + 18x$

8a. $x(8 - 2x)$

8b. $8x - 17x$

8c. $x(8 - 2x) - 17x$

$8x - 2x^2$

$-9x$

$-2x^2 - 9x$

9a. $3x(6 - 11x)$

9b. $-33x^2 + 5x^2$

9c. $3x(6 - 11x) + 5x^2$

$18x - 33x^2$

$-28x^2$

$-28x^2 + 18x$

10a. $-4x(7x + 5)$

10b. $-28x^2 + 16x^2$

10c. $-4x(7x + 5) + 16x^2$

$-28x^2 - 20x$

$-12x^2$

$-12x^2 - 20x$