

Lesson 5

The Distributive Property and Combining Like Terms

Answers

1) $4x + 12 + 2x = 6x + 12$

2) $10y - 5 + 3y = 13y - 5$

3) $6a + 8 - a - 5 = 5a + 3$

4) $-3x + 18 + 2x = -x + 18$

5) $2x + 6 = 16$, $2x = 10$, $x = 5$

6) $8n - 4 + 3 = 19$, $8n - 1 = 19$, $8n = 20$, $n = 5/2 = 2.5$

7) $3y + 15 - 2y = 20$, $y + 15 = 20$, $y = 5$

8) $6x - 12 + 3x + 3 = 9x - 9$

9) $-3x + 4 + 5x = 2x + 4$

10) $8m - 12 - 2m - 2 = 6m - 14$

11) $3a + 6b - 2a + 2b = a + 8b$

12) $5x - 20 = 0$, $5x = 20$, $x = 4$

13) $6x + 3 - 5 = 22$, $6x - 2 = 22$, $6x = 24$, $x = 4$

14) $-2x + 8 = 10$, $-2x = 2$, $x = -1$

15) $12x + 8 = 10x + 16$, $2x = 8$, $x = 4$

16) $7a - 6a + 3 + 5 = a + 8$

17) $8x - 6 - 3x - 1 + 8 = 5x + 1$

18) $6x + 12 - 3x + 3 = 27$, $3x + 15 = 27$, $3x = 12$, $x = 4$

19) $P = 2(3x + 4) + 2(2) = 6x + 8 + 4 = 6x + 12$

20) $10x - 5 - 3x - 6 + 4x - 12 = 11x - 23$