

Lesson 5

The Distributive Property and Combining Like Terms

Answers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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