

Visual organizer for solving equations: do PEMDAS first, then balance sides

Equation

$$4(x+2) - 3 * 5 = 2(x-1) + 3^2 - 4 / 2$$

Work out Parentheses and Exponents

$$4x + 8 - 3*5 = 2x - 2 + 9 - 4/2$$

Multiply and Divide

$$4x + 8 - 15 = 2x - 2 + 9 - 2$$

Combine like terms on same side (variables with variables, numbers with numbers)

$$4x - 7 = 2x + 5$$

Add/subtract number(s) from both sides: add 7 to both sides

$$4x = 2x + 12$$

Add/subtract variable from both sides:
subtract $2x$ from both sides

$$2x = 12$$

Multiply/divide both sides

Divide by 2

Answer =

6

Check answer $X = 6$ $4(6+2) - 3 * 5 = 2(6-1) + 3^2 - 4 / 2$

$$48 - 15 = 10 + 9 - 2$$

$$17 = 17$$

