

MULTI-STEP EQUATIONS WITH THE DISTRIBUTIVE PROPERTY

Solve each equation by distributing. Draw a line from each equation to the expanded form and the solution.

| EQUATION | EXPANDED | SOLUTION |
|---|--------------------|----------|
| 1. $3(1.5x + 9) = ?$ | $4.5x + 16 = 11.5$ | $x = -4$ |
| 2. $-9\left(\frac{1}{2}x - 3\right) = ?$ | $4.5x + 27 = -9$ | $x = 6$ |
| 3. $2(2.25x + 8) = ?$ | $4.5x - 16 = 11$ | $x = -8$ |
| 4. $8.5x - 2(2x + 8) = ?$ | $-4.5x + 27 = 45$ | $x = -1$ |

Answer the following questions.

5. The perimeter of an equilateral triangle is 63 inches. If the length of each side is $(4x-3)$, find the value of x .

Equation: _____

Solution: _____

6. The Gonzales family has three children. On summer break, they went to an amusement park. They bought 3 child tickets for \$18.50 and 2 adult tickets. If they spent a total of \$104.50, how much was the price of each adult ticket?

Equation: _____

Solution: _____