

Q1 Multi Step Equations Assignment 1

Name: _____ Date: _____ Period: _____

Solving Linear Equations
Variables on One Side**Solve the following equations:**

1. $3x + 5x - 8x = 56$

2. $\frac{4}{5}x - \frac{1}{10} = 14$

3. $\frac{3r-5r-r}{6} = 4$

4. $5(3c - 2) + 8 = 43$

5. $18 = -6x + 3(2x + 3)$

6. $4(2r + 1) - 3(2r - 5) = 29$

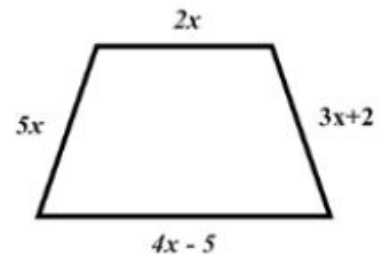
7. $\frac{3}{4}(8 + 4x) - \frac{1}{3}(6x + 3) = 9$

8. $\frac{x+3}{8} + \frac{x+1}{3} = 3$

9. $\frac{q-2}{3} - \frac{q+4}{4} = 5$

Solve the following equations: assignment 1

1. The polygon shown in the diagram has a perimeter of 39. Solve for x.



2. John's wants to lose weight before his class reunion. A commercial on TV boasts that a new piece of exercise equipment will help him lose 3 pounds per week. John has already lost 9 pounds. He wants to lose a total of 45 pounds. How many weeks would John need to use the new exercise equipment to lose the rest of the weight? Write and solve an equation that represents the situation. Round appropriately.

3. Three times the sum of a number and four is 45.

Each equation is solved incorrectly. Some problems contain more than one error. Find and circle the error(s). Briefly explain the error that was made. Then correct the work in the space provided.

Problem	Correct Solution
<p>1) $3m - 7 + m + 23 = 5$</p> $\begin{array}{r} -m \quad -m \\ 2m - 7 + 23 = 5 \\ 2m + 16 = 6 \\ \underline{-16 \quad -16} \\ 2m = -10 \\ \underline{2 \quad 2} \\ m = -5 \end{array}$	<p>1)</p>
<p>2) $18 - (y + 2) = 21$</p> $\begin{array}{r} 18y - 36 = 21 \\ \underline{+36 \quad +36} \\ 18y = 57 \\ \underline{18 \quad 18} \\ y = \frac{19}{6} \end{array}$	<p>2)</p>