Unit 1 - Lesson 2

Date:

Solving Multi-Step Equations

Find the roots of the equations.

 **Steps (using opposite operations )**

➊ $4x-3=2x-11$

An alternative way of **thinking** about it

 **Steps (transpose the terms by reversing the sign)**

 $4x-3=2x-11$

**Transpose** means to move a “term” from one side of an algebraic equation to the other side, by reversing its sign to maintain equality.

Now you try…Check your answer using proper form. Check

➋ $m+15=7+5m$

➌ $-3d+8=-7d-12$

➍ $\left(8y-2\right)-\left(3-5y\right)=\left(2y-1\right)+(3-y)$ Steps

➎ $2\left(n-6\right)=3\left(2+3n\right)+3$

**Key Concepts:**

* *Remove if applicable using*
* *Transpose all the terms that involve the unknown to the and transpose the constants to the .*
* *Simplify each side of the equation by .*
* *Continue to solve by .*

**Learning Goal:**

❑ I can solve equations by using opposite operations in order to collect like terms.

❑ I can solve equations by transposing terms in order to collect like terms.