Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table # \_\_\_\_ Per \_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

**1.0D NOTES – Solving Equations With Variables on Both Sides**

**WATCH VIDEO:** <https://www.youtube.com/watch?v=fDMxOiS5g7k>

|  |
| --- |
| When solving equations with variables on both sides, you will first want to combine any like terms on each side of the equal sign but what will you want to do next? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  What is meant by “pick your side?” \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  How does the man in the video pick? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**EXAMPLES FROM THE VIDEO: Solve the following equations**

|  |  |
| --- | --- |
| 1. 7x = 4x + 15 | 2. 5x – 2 = 3x + 4 |
| 3. 9n – 6 = 5n + 18 | 4. 6y + 4 – 3y = -5 + y + 17 |
| 5. x + 14 = 7x + 32 – 3x | 6. 2k – 5k = 3(1 – 2k) |

**Continued on back**

**APPLICATION (1.3)**

**Try it Yourself**

|  |
| --- |
| Solve 4x = 5x + 10  How is this question different from Example Problem #1? |

A polygon is ***regular*** if each of its sides has the same length. Find x. Then find the perimeter of the regular polygon.

|  |  |
| --- | --- |
| 7. | 8. |

**HW: 1.0D Homework (handout)**

Objective: Solve linear equations with rational number coefficients. CCSS: 8.EE.7b