Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_

**4.5B Graphing Using Intercepts\_Classwork**

*Objective: graph linear equations written in standard form. Applying Standard 8.EE.6*

*HW: 4.5B HW (handout)*

 Use **your 4.5A Notes** for assistance

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| 1. Find the x- & y-intercepts -2x + 3y = -6x-intercept: \_\_\_\_\_\_\_ y-intercept: \_\_\_\_\_\_\_\_ | 2. Find the x- & y-intercepts 8x – 7y = 16x-intercept: \_\_\_\_\_\_\_ y-intercept: \_\_\_\_\_\_\_\_ |
| 3. Find the x- & y-intercepts 4x + 8y = 16x-intercept: \_\_\_\_\_\_\_ y-intercept: \_\_\_\_\_\_\_\_ | 4. Find the x- & y-intercepts 5x + 6y = 13x-intercept: \_\_\_\_\_\_\_ y-intercept: \_\_\_\_\_\_\_\_ |
| 5. Find the x- & y-intercepts -3x – 6y = 18x-intercept: \_\_\_\_\_\_\_ y-intercept: \_\_\_\_\_\_\_\_ | 6. Find the x- & y-intercepts -7x + 3y = 10 x-intercept: \_\_\_\_\_\_\_ y-intercept: \_\_\_\_\_\_\_\_ |

**Summary**: Using details and examples, describe what a linear equation in standard form (Ax + By = C) looks like to get integers when you calculate the x- and y-intercepts.

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| 7. **SOLVE FOR Y AND WRITE THE EQUATION IN SLOPE-INTERCEPT FORM. THEN IDENTIFY THE SLOPE AND**  **Y-INTERCEPT: -5X + 3Y = -9** |

DIRECTIONS: For the following equations:

1) If it is in slope-intercept form, then identify the slope and y-intercept.

2) If it is in standard form, then identify the x- & y-intercept.

3) Would you graph using slope and intercept OR using the x-& y-intercepts**? Explain your reasoning.**

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| 7) y = 2x - 3 |
| 8) 4x + 5y = 20 |
| 9) 6x – y = 13 |

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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Quizlet (4.5C) – Exit SlipGraph the linear equation 2x + 3y = 6 | Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Quizlet (4.5C) – Exit SlipGraph the linear equation 2x + 3y = 6 |
| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Quizlet (4.5C) – Exit SlipGraph the linear equation 2x + 3y = 6 | Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Quizlet (4.5C) – Exit SlipGraph the linear equation 2x + 3y = 6 |