**Openers #2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*Each day when you come into class, there will be a problem projected for you to complete. Find the appropriate box to complete the problem in and work on it when you arrive.*

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| **Date:**  **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 2-1   1. Solve the equations by hand. 2. b. c. 3. Solve the equation by graphing. x(3x+4) = 5   2-2   1. A couple does not wish to spend more than $70 for dinner at a restaurant. If a sales tax of 6% is added to the bill and they plan to tip 15% after the tax has been added, what is the most they can spend for the meal? 2. It takes a girl 45 minutes to deliver the newspapers on her route; however, if her brother helps, it takes them only 20 minutes. How long would it take her brother to deliver the newspapers by himself?   2-3  Solve: 2x2 + 5x – 12 = 0  graphically  factoring  quadratic formula  completing the square  Solve by completing the square. x2 + 10x + 38 = 0 |
| **Date:**  **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 2-4  Simplify.  Simplify. *i*(3+4*i*)2  Find the values for x and y. 8 + (3x+y)*i* = 2x – 4*i*  Solve. x2 – 5x + 20 = 0  2-5  Solve the equation.  Solve the equation.  Solve the equation. - 2 = 0 |
| **Date:**  **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 2-6  Solve the inequality. |16 – 3x| ≥ 5  Express the interval as an inequality. (-3,∞)  Express the inequality as an interval. -3 ≥ x > -5  Solve the inequality. |4x+7| |
| **Date:**  **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 2-7   1. Solve. ≥ 0. 2. Solve. ≤ 0. 2. Solve by graphing. 3. Solve by graphing. 4. Solve by graphing. |