Math 8 OnLevel

Related

Standards

Key

Standards

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| **Unit 6: Systems of Equations and**  **Inequalities**  http://www.mathwarehouse.com/algebra/linear_equation/systems-of-equation/images/solution-system-linear-equation-answer.jpg | **M8A2. Students will understand and graph inequalities in one variable.**              a. Represent a given situation using an inequality in one variable. (PSAT – M4); (ACT)              b. Use the properties of inequality to solve inequalities. (PSAT – M5); (ACT)              c. Graph the solution of an inequality on a number line.              d. Interpret solutions in problem contexts.  **M8A4. Students will graph and analyze graphs of linear equations and inequalities.**  e. Graph the solution set of a linear inequality, identifying whether the solution set is an open or a closed half-plane. (PSAT – M2); (ACT)  **M8A5. Students will understand systems of linear equations and inequalities and use them to solve problems.**   1. Given a problem context, write an appropriate system of linear equations or inequalities.   b. Solve systems of equations graphically and algebraically, using technology as appropriate.   c. Graph the solution set of a system of linear inequalities in two variables.  d. Interpret solutions in problem contexts. | **M8G1. Students will understand and apply the properties of parallel and perpendicular lines and understand the meaning of congruence.**  **M8A1. Students will use algebra to represent, analyze, and solve problems.**  **M8A3. Students will understand relations and linear functions.**  **M8A4. Students will graph and analyze graphs of linear equations and inequalities.** |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Mon | Tue | Wed | Thu | Fri | | **2/20**  **NO SCHOOL!!!** | **2/21**  - Solving Inequalities Review | **2/22**  **-** - Solving Inequalities (Word Problems)  PRACTICE CRCT Reading | **2/23**  - Solving Inequalities (Word Problems)  PRACTICE CRCT Language Arts | **2/24**  **-**  **Unit 5 Review**  (Stations)  PRACTICE CRCT MATH | | **2/27**  **Unit 5 Review**  **(Day 2)**  PRACTICE CRCT Science | **2/28**  -  **Unit 5 Review**  **(DAY 3)**  PRACTICE CRCT Social Studies | **2/29**  **-UNIT 5 TEST** | **3/1**  **-**Solving Systems of Liner Equations by Graphing | **3/2**  **-**Solving Systems of Liner Equations by Graphing | | 3/5  **-**Solving Systems of Liner Equations by Graphing | 3/6  **-**Solving Systems of Liner Equations (Plug and Chug) | 3/7  **-**Solving Systems of Liner Equations (Plug and Chug) | 3/8  - Solving systems of Liner Inequalities  HOLT 6-5 | **3/9 teacher workday !!!**  **no school** | | 3/12  Solving Systems of Linear Inequalities  Holt 6-6 | 3/13  - Solving Systems of Liner Equations (Word Problems WS4) | 3/14  **-Unit 6 Review** | 3/15  **Unit 6 Review**  **(DAY 2)** | 3/16  **-UNIT 6 TEST** | | 3/19  **Probability** | 3/20 | 3/21 | 3/22 | 3/23 | | | Vocabulary   |  | | --- | | *Combination/Elimination Method:* a method used to solve systems of equations in which one variable is eliminated by adding or subtracting two equations of the system.  *Consistent System:*a system with at least one solution.  *Dependent System:* has infinitely many solutions. The graph of a dependent system consists of two coincident lines.  *Inconsistent System:* a system that has no solution.  *Independent System:* has exactly one solution. The graph of an independent system consists of two intersecting lines.  *Solution of a System of Linear Equations:* an ordered pair that satisfies each equation in the system. So, if an ordered pair is a solution, it will make both equations true.  *Solution of a System of Linear Inequalities:* any ordered pair that makes the inequality true.  *Standard form of a linear equation*: Ax+By = C where A, B, and C are real numbers and A and B are not both zero.  *System of Equation:* Two or more equations that together define a relationship between variables usually in a problem situation. It can have no solution, one solution, or many solutions.  *System of Linear Equations:* a set of two or more linear equations containing two or more variables.  *System of Linear Inequalities:* a set of two or more linear inequalities containing two or more variables | |