Empowered and Inspired Today... Leading Our Community Tomorrow

## $8^{\text {th }}$ Grade Math Pacing Guide




Pacing guides are subject to change



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[^1]|  |  |  |  | Analyze and solve pairs of simultaneous linear equations. <br> a. Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously. <br> b. Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. <br> For example, $3 x+2 y=5$ and $3 x+2 y=6$ have no solution because $3 x+2 y$ <br> cannot simultaneously be 5 and 6 . | point of intersection is the $x$-value that will generate the given $y$-value for both equations. Students recognize that graphed lines with one point of intersection (different slopes) will have one solution, parallel lines (same slope, different $y$-intercepts) have no solutions, and lines that are the same (same slope, same $y$-intercept) will have infinitely many solutions. <br> By making connections between algebraic and graphical solutions and the context of the system of linear equations, students are able to make sense of their solutions. Students need opportunities to work with equations and context that include whole number and/or decimals/fractions. Students define variables and create a system of linear equations in two variables <br> The above graph indicates that at 3 miles the cost is $\$ 8$ for both cabs. <br> Resources: Holt-McDougal Course 3, Chapters 11, 12 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 8.EE.C | 8.EE.C.8, con't <br> c. Solve real- world and mathematical problems leading to two linear equations in two variables. <br> For example, given coordinates for | Let $m=$ number of miles <br> Blue Cab cost: $\$ 5+m$ <br> Yellow Cab cost: $\$ 2+2 m$ $\begin{aligned} 5+m & =2+2 m \\ 3 & =m \end{aligned}$ <br> So at 3 miles, the cost for both cabs will be the same. |




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References: Tennessee Department of Education
Madison County School District

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