name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ block \_\_\_\_ Week x Week #19M1: 1/27 – 2/3, 2017

Solve each problem. Make sure that you show ALL WORK involved in solving the problem in order to get full credit.

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| Simplify:      132 – 2.52 | Write the equation for the line that goes through these points in slope-intercept form:   |  |  | | --- | --- | | x | y | | 9 | 1 | | 15 | 5 | | 21 | 9 | | 27 | 13 |   A given line crosses through the points (2, 8.25) and (20, ). Write the equation of the line that is *parallel* to the given line and crosses through the point (8, -5).  Slope-Intercept \_\_\_\_\_\_\_\_\_\_\_\_  Standard \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | A square puzzle has an area of 289 in2. What is the perimeter of the puzzle?  Write the equation of the line that has a slope of and goes through the point (15,6) in standard form.  Write the two point-slope equations of the line that goes through the points (5,3) and (-5,9). |

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| The Ricci family is building a new house on a square foundation. The floor area of the house is 1,316 ft2. What is the *length of one wall* of the house, to the nearest foot?  What is the *perimeter* of the Ricci’s new house?  If this prism is only filled one-third of the way with water, what is the volume of the water? | | Solve each equation for the variable indicated:  Solve, graph, and write in interval notation:  4(9 – 3b)> 36 | | The Big Screamer Coaster carries 92 people altogether. Some of its cars carry 4 passengers, and the rest carry 6 passengers. There are three less 6-passenger cars than 4-passenger cars. How many 4-passenger cars are there?  The amount of water wasted from a leaking faucet varies directly with the time that the faucet leaks. Ninety-six oz of water are wasted in 30 minutes. Write a direct variation equation to represent this situation.  How much water would be wasted in 5 minutes? |
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