name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ block \_\_\_\_\_ Week x Week #21M1: 2/10 – 2/17, 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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| http://math.fullcoll.edu/art/sample-graphs/linear-graph-8.pngWrite the equation for the line that is **perpendicular** to the line graphed above and goes through the point (-4, 2).  Slope-intercept \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Point-slope \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Standard \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | In a family there are two cars. In a given week, the first car gets an average of 25 miles per gallon, and the second car gets 30 miles per gallon. The two cars combined drive a total of 1600 miles in that week, for a total gas consumption of 60 gallons. How many gallons were consumed by each of the two cars that week? | If:  7(2x – 3) – 4(x + 5) = 8(x – 1) + 3  then find the value of -4x.  Flying against the jetstream, a jet travels 1980 km in 3 hours. Flying with the jetstream, the same jet travels 10080 km in 9 hours. What is the speed of the jet in still air, and what is the speed of the jetstream? |

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| For lunch, Kyle had a hamburger and potato chips. The hamburger had 325 calories and each chip had 12 calories. Write an equation that represents the total calories Davis consumed if he ate *x* potato chips.  If the meal had 541 calories, how many chips did Kyle eat?  What will be the total calories that Kyle consumes of he eats 12 potato chips? | What is the y-intercept of the line that goes through the points (-3,6) and (6,0)?  Write the equation of the line that goes through the points (-3,6) and (6,0) in **standard form**.  Emma drove from her home to a service station at 48 km/h. She returned home by bicycle at 16 km/h. The entire trip took 4 hours. How far was the service station from Emma’s home? | *Evaluate. NO CALCULATOR!!!!!*  *\*\**  *\*\**  *\*\**  Mr. Angerer drove 211 miles in 4 hours and 15 minutes. Find his rate in miles per hour. |
| For lunch, Kyle had a hamburger and potato chips. The hamburger had 325 calories and each chip had 12 calories. Write an equation that represents the total calories Davis consumed if he ate *x* potato chips.  If the meal had 541 calories, how many chips did Kyle eat?  What will be the total calories that Kyle consumes of he eats 12 potato chips? | What is the y-intercept of the line that goes through the points (-3,6) and (6,0)?  Write the equation of the line that goes through the points (-3,6) and (6,0) in **standard form**.  Emma drove from her home to a service station at 48 km/h. She returned home by bicycle at 16 km/h. The entire trip took 4 hours. How far was the service station from Emma’s home? | *Evaluate. NO CALCULATOR!!!!!*  *\*\**  *\*\**  *\*\**  Mr. Angerer drove 211 miles in 4 hours and 15 minutes. Find his rate in miles per hour. |