name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ block \_\_\_\_\_ Week x Week #20: 2/3 – 2/10, 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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| What is the equation, in slope-intercept form, for Line 3?  What is the equation, in slope-intercept form, for Line 4? | A freight elevator is being loaded with identical 76-pound boxes. The elevator can carry *no more than* 2000 pounds. The men loading the elevator weigh 425 pounds all together and they must ride the elevator with the boxes. How many boxes can be loaded on the elevator?  *If , find the value of 3p.* | Simplify each expression completely:  • 15 – 4(a – 5)  • -5 – 3x – x – (-16)  • 3d + 8(-d – 5)  • -20 – 2(8 – 5y) + 6y  Solve:  9(x + 3) = 4x – 3 |

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| What is the slope of a line that passes through the points (0, -3) and (-4, 2)?  [http://t1.gstatic.com/images?q=tbn:ANd9GcSRPF9KQy6Lr2tsNhQnx-6oIhjCPYelb8jSRHrhv6HYjnlat8mw0Q](http://www.google.com/imgres?q=coordinate+plane+quadrant+1&um=1&hl=en&qscrl=1&nord=1&rlz=1T4IRFA_enUS274US279&biw=1280&bih=533&tbm=isch&tbnid=hegxiGRYLuH_2M:&imgrefurl=http://mathbits.com/mathbits/studentresources/graphpaper/graphpaper.htm&docid=60fsecGKke5WWM&w=300&h=300&ei=drh2TsPvFZS4tgfUuYCrDA&zoom=1)Find the length of the hypotenuse of a triangle with coordinates (6,1), (0,9), and (0,1) | | Solve:  16 – 2(5 + 6m) = -90  A line passes through the point (2,-6) and has a slope of 2. Write the equation of the line in slope-intercept forms.  A right triangle has a hypotenuse that is 30 cm long and a leg that is 18 cm long. What is the length of the second leg? | *A rectangle is 7 cm wide and 10 cm long. Find the length of a diagonal of the rectangle.*  Given the equation:  4x + 3y = 8  Find the slope of the line:  Find the y-intercept of the line: | |
| What is the slope of a line that passes through the points (0, -3) and (-4, 2)?  [http://t1.gstatic.com/images?q=tbn:ANd9GcSRPF9KQy6Lr2tsNhQnx-6oIhjCPYelb8jSRHrhv6HYjnlat8mw0Q](http://www.google.com/imgres?q=coordinate+plane+quadrant+1&um=1&hl=en&qscrl=1&nord=1&rlz=1T4IRFA_enUS274US279&biw=1280&bih=533&tbm=isch&tbnid=hegxiGRYLuH_2M:&imgrefurl=http://mathbits.com/mathbits/studentresources/graphpaper/graphpaper.htm&docid=60fsecGKke5WWM&w=300&h=300&ei=drh2TsPvFZS4tgfUuYCrDA&zoom=1)Find the length of the hypotenuse of a triangle with coordinates (6,1), (0,9), and (0,1) | | Solve:  16 – 2(5 + 6m) = -90  A line passes through the point (2,-6) and has a slope of 2. Write the equation of the line in slope-intercept forms.  A right triangle has a hypotenuse that is 30 cm long and a leg that is 18 cm long. What is the length of the second leg? | *A rectangle is 7 cm wide and 10 cm long. Find the length of a diagonal of the rectangle.*  Given the equation:  4x + 3y = 8  Find the slope of the line:  Find the y-intercept of the line: | |