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| Brandon has a budget of $75 to spend on clothes. The shirts he wants to buy are on sale for $10 each, and the pair of pants he wants costs $20 each. All prices include tax. Write an inequality to determine *x*, the maximum number of shirts, and *y*, the maximum number of pants Brandon can buy. | Don’t forget to shade | *m*  =  *b* = | *x* represents    *y*  represents | \_\_\_\_x + \_\_\_\_y < 75 |
| On Wednesdays an athlete’s schedule allows for less than 75 minutes for morning training. One round of a strength routine, *x*, requires 10 minutes. One round of an endurance routine, *y*, requires 20 minutes. Which inequality could be used to determine the time available for the athlete to spend on strength and endurance routines on Wednesdays? | Don’t forget to shade | *m*  = -1/2  *b* = 15/4 | *x* represents    *y*  represents | 10x + 20y < 75 |
| Anna makes hand-painted plates and cups. Her overhead costs are $75 per week, and she pays an additional $5 per cup in material costs. Anna sells the cups for $10 each. She pays an additional $10 per plate in material costs. Anna sells the plates for $25 each. Write an inequality to determine *x,* the minimum number of cups and *y* the minimum number of plates Anna has to sell each week before she can make a profit? | Don’t forget to shade | *m*  =  *b* = | *x* represents    *y*  represents | 75 < 5*x* + 15*y* |
| Best Buy is having a sale. If you buy more than $75 worth of CDs and DVDs, you can get a 25% discount off of your total price. If CDs are $10 each and DVDs are $25 each, write an inequality to describe the number of CDs, *x*, and DVDs, *y*, that he would have to buy to receive the discount. | Don’t forget to shade | *m*  =  *b* = 3 | *x* represents  the number of CDs  *y*  represents  the number of DVDs | 75 < *x* + *y* |
| Michelle sells cupcakes for $15 a dozen and specialty cakes for $35. Write an inequality to determine the number of dozens of cupcakes, *x,* and specialty cakes, *y*, she would have to sell in order to make at least $75? | Don’t forget to shade | *m*  = -3/7  *b* = | *x* represents    *y*  represents | 75 < 15*x* + 35*y* |