

- 1) You are putting together a Welding kit. Your kit needs to have at least 5 total items, but no more than 12 total items. You have a total budget of \$500. You must purchase at least 2 items that have a warranty, and at least 3 items that do not have a warranty.
 - a. What does your x-value represent?

 - b. What does your y-value represent?

 - c. Write the inequalities that represent the conditions listed in the problem.

 - d. Research and list the items and the cost of each item that you would include in your kit. Include a link for where each item would be purchased from. Submit this in a google doc that will be shared with Shelby and Mrs. Owen (owenr@cossaschools.org). Show how your total list of items meets each of the conditions listed in the problem.

Possible items:

Helmet, gloves, welding pliers, wire brush, slag hammer, scraper, safety glasses, welding cap, marking utensil (soapstone, sharpie, etc), tape measure, square, magnet, welding bag, welding jacket/shirt, calipers, weld gauge, metal gauge, angle grinder