

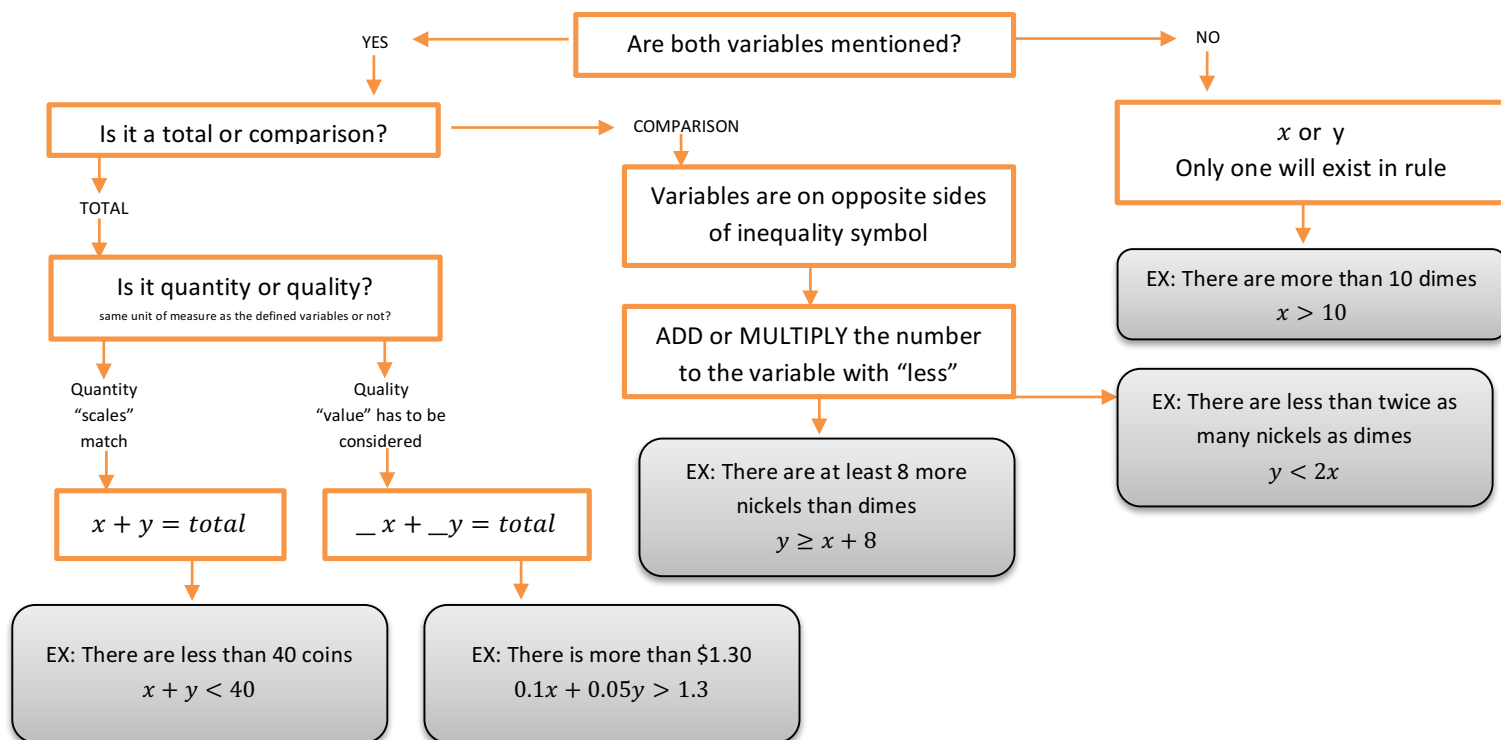
Polygon of Constraints Process

(1) Define your variables

Let x be _____

Let y be _____

(2) Words to Rules



- Rewrite rules in Function Form $y = ax + b$
- Identify the initial value (b) and plot it on the y-axis
- Identify the slope (a) and use it as $\frac{RISE}{RUN}$ to find a second point

****REMEMBER****

- if $a > 0$, RISE UP
- if $a < 0$, RISE DOWN
- ALWAYS RUN RIGHT (if you run wrong you'll trip)
- Connect the dots with:
 - _____ if \leq or \geq
 - if $<$ or $>$
- SHADE
 - OVER if $>$ or \geq
 - UNDER if $<$ or \leq

(4) Table and Find Vertices (comparison method)

- Write the two rules that cross at the first vertex to be found
 - Swap inequality symbol for an equal sign
- Compare the y's by writing $ax+b=ax+b$
- Solve for x
- Substitute the found x into both of the original rules to find y
 - **If the y's are the same .. you have been successful**
- Summarize the Point
 - ie: A(x,y)