

No: \_\_\_\_\_

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

## \* Minimum Units on a Truck

$[[1, 3], [2, 2], [3, 1]]$  # of selections = 4

take items greedily to count max units s.t unit values are from highest to lowest.

∴ Sort the array.

then count the items & unit values.

- use counting sort as unit value  $< 1000$  take an array. Iterate through given list & store possible count for that unit value.

then count items & unit values.

$[5, 8, 2, 12, 0, 0, 1] \leftarrow \# \text{ of items}$   
 $1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \leftarrow \text{unit value}$