

Should you steal the stereo or not?

You have a knapsack of capacity 1 lb. Will the stereo fit in there? Nope, it's too heavy! Because you can't fit the stereo, \$1,500 *remains* the max guess for a 1 lb knapsack.

	1	2	3	4
GUITAR	\$1500 ↓ G	\$1500 G	\$1500 G	\$1500 G
STEREO	\$1500 G			
LAPTOP				

Same thing for the next two cells. These knapsacks have a capacity of 2 lb and 3 lb. The old max value for both was \$1,500.

	1	2	3	4
GUITAR	\$1500 ↓ G	\$1500 ↓ G	\$1500 ↓ G	\$1500 G
STEREO	\$1500 G	\$1500 G	\$1500 G	
LAPTOP				

The stereo still doesn't fit, so your guesses remain unchanged.

What if you have a knapsack of capacity 4 lb? Aha: the stereo finally fits! The old max value was \$1,500, but if you put the stereo in there instead, the value is \$3,000! Let's take the stereo.

	1	2	3	4
GUITAR	\$1500 ↓ G	\$1500 ↓ G	\$1500 ↓ G	\$1500 G
STEREO	\$1500 G	\$1500 G	\$1500 G	\$3000 S
LAPTOP				