

Here are some homework problems, based upon the filmstrip we watched.

Problem 1. *You have many bricks that are 1 foot by 2 feet by 4 feet. Can you completely pack a box with these bricks, if the box is 6 feet by 6 feet by 6 feet?*

Problem 2. *Gloria is visiting in California. She wants to rent a hotel room for 63 days. The room costs 100 dollars a day. She has a bracelet of 63 gold links, each one worth more than 100 dollars. She will give the hotel clerk a link a day, and will reclaim the bracelet at the end, when she gets some money. She can trade pieces of the bracelet back and forth with the hotel clerk. For instance, she can give him 1 link the first day, then on the second day give him 2 links and receive the first link back.*

How can she manage this by cutting only 3 links in total?