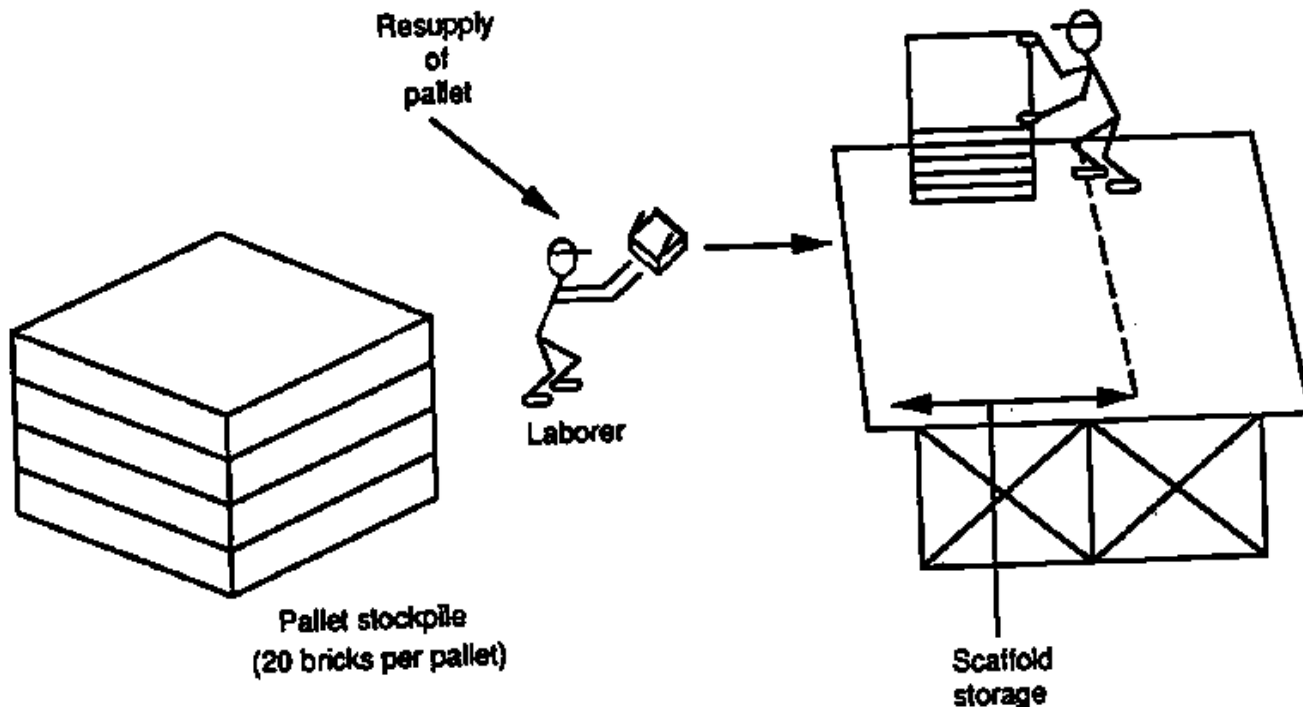


# Home assignment 3

1



Consider a mason-laborer problem in which the laborer stockpiles brick pallets on a scaffold. The scaffold is configured to allow for the stacking of two 30-brick pallets. There is one laborer who serves three masons. A schematic diagram showing the sequence of the operation is presented below.



# Home assignment 3

2

- A time study was carried out to obtain the durations required for the supply of packets and laying of bricks (each pallet-30 bricks).
  - Duration for the laborer to stockpile one brick pallets on a scaffold: 5 minutes
  - Duration for a mason to place one brick pallets: 13 minutes
- Assume that there is an infinite supply of brick pallets and there are no bricks stacked on the scaffold at the beginning of the operation. Work starts at 7 am and finishes 7 pm.  
*Hand simulate the model for 1 hours!*
- *How long labor is idle? How long masons (in total) are idle?*

**Due in 2 weeks**