

# Production Control

## Exercise 5

Name: \_\_\_\_\_

Continuing the MRP chair manufacturing example in the lecture, fill the following MRP demand explosion table for the “Front Leg” component (only used in the ladder-back chair):

Item: Front Legs Min order size: 120 units								
Lead time: 1 week	Week							
	1	2	3	4	5	6	7	8
Gross requirements								
Scheduled receipts	250	0	0	0	0	0	0	0
Projected on-hand inventory 100								
Planned receipts								
Planned order releases								

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## Exercise 6

Suppose the Kanban system described in the slide “What is Kanban?” of the lecture faces a daily demand  $N(20,5)$  from the downstream stage, and that the total cycle time of any work order through the “Production Stage” is 2 days. How many Kanban cards should be placed in this system in order to guarantee a 95% service level?