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MGT613 Assignment 1 Solution

Fall 2026

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MGT613: Production and Operations Management

Assignment No. 1 — Fall 2026 | Total Marks: 10

Name: VU Learning Hub

A) 1. Labor Productivity for Week 1

Labor hours in Week 1 = 6 workers x 8 hours x 5 days = 240 hours.

Labor productivity = Output / Labor hours = 900 / 240 = 3.75 cans per labor hour.

A) 2. Labor Productivity for Week 2

Labor hours in Week 2 = 8 workers x 8 hours x 5 days = 320 hours.

Labor productivity = Output / Labor hours = 1,200 / 320 = 3.75 cans per labor hour.

A) 3. Comparison of Both Weeks

Week	Output (cans)	Labor hours	Productivity (cans per labor hour)
Week 1	900	240	3.75
Week 2	1,200	320	3.75

Week 1 and Week 2 give the same result of 3.75 cans per labor hour. Week 2 made more cans, but it also used more labor hours, so the output per hour is the same. Neither week is better than the other.

B) Multifactor Productivity (MFP)

The three input costs are labor, material and overhead.

Total input cost = Rs. 400 + Rs. 150 + Rs. 700 = Rs. 1,250.

Multifactor productivity = Output / Total input cost = 5,000 / 1,250 = 4 rolls per rupee.