

	2021		2022	
	Price	Quantity	Price	Quantity
Veggie Burgers	\$12	30	\$14	35
Veggie Chili	\$8	22	\$9	25

- 1 Compute nominal GDP for 2021 and 2022.
- 2 Use 2021 as a base year and compute real GDP for 2021 and 2022.
- 3 Compute the price level with the GDP deflator for 2021 and 2022, using 2021 as a base year.
- 4 Define the **inflation rate**. Compute the inflation rate from 2021 and 2022 using your answers above.
- 5 Suppose in 2021 you earned a nominal wage of \$14 per hour and in 2022 you earned \$15 per hour. Use these nominal wages and the GDP deflator measure of the price level to compute your real wage for each year. In terms of purchasing power of wages, do you think you earned more in 2021 or 2022? Explain.

6. Growth in Technology

With recent improvements in technological automation, automobile production in manufacturing facilities have become increasingly automated. As a result, there has been a permanent reduction in demand for automobile manufacturing employment in the United States. **What type of unemployment does this cause? Explain.**

7. LoompaLand (working-age pop. 14,000)

- 8,000 are employed at Willy Wanka's Chocolate Factory
- 2,000 are employed as chocolate industry spies by Sluggworth's Chocolates
- 1,500 are employed as vocalists in the local music industry
- 1,000 Oompa Loompas are looking for jobs, but are not yet employed
- 1,200 Oompa Loompas are not employed, but are not looking for jobs because they became frustrated and gave up trying to find a job
- 300 Oompa Loompas are retired, not interested in working.

Questions

- Define the **labor force participation rate**. Compute the labor force participation rate for LoompaLand.
- Define the **unemployment rate**. Compute the unemployment rate for LoompaLand.
- Define **discouraged worker**. How many discouraged workers are there in LoompaLand?