



4. Suppose the marginal propensity to consume is 80% and the marginal propensity to import is 10%. The economy is in a recession. Real GDP is \$21 trillion, and at full employment real GDP would be \$22 trillion. Congress and the president decide to increase government spending in an effort to push real GDP to potential GDP. How much should government spending be increased by?
5. What happens to the expenditure multiplier if MPS increases? Does a lower or higher MPS give the government greater power to influence GDP? Does a lower or higher MPS create a less volatile economy (i.e. smaller fluctuations in real GDP)?

Answer all the following questions ask you to consider the Pell Grant Federal Program in the context of this unit's material and the previous unit's. Answer the following questions regarding short-run and long-run benefits and costs to Pell Grants. The **Federal Pell Grant Program** provides funding to undergraduate students who display exceptional financial need and have not yet earned a bachelor's, graduate, or professional degree.

6. Describe the short-run economic impact to the cities where Pell Grant recipients go to school. Be specific on the magnitude of the multiplier effect and describe intuitively what that means.
7. Suppose there is an expansion of the program which is not funded with an increase in taxes and no matching decrease in other government expenditures. Describe the impact on the government budget deficit, and describe and illustrate the impact on the equilibrium level of investment and interest rate.
8. Suppose over time, after Pell Grant recipients graduate college that they go on to earn higher salaries, and therefore pay more in taxes, save more, and consume more. Describe and illustrate the impact on the equilibrium level of investment and interest rate.
9. Describe and illustrate the impact that the program can have on labor productivity and real GDP per capita.