## National saving Example:

1) Suppose that GDP is 10,000 , Tax is 1,500 , Government spending is 4,000 and consumption is 4,000 . Calculate Public Savings, Private savings and National Savings.

Answer) Using the public savings equation

$$
\begin{gathered}
\text { Public Savings }=\mathrm{T}-\mathrm{G} \\
\text { Public Savings }=1,500-4,000 \\
\text { Public Savings }=-2500
\end{gathered}
$$

This suggests that the government is running a budget deficit.
Using the Private savings equation

$$
\begin{gathered}
\text { Private savings }=\mathrm{Y}-\mathrm{T}-\mathrm{C} \\
\text { Private savings }=10,000-1,500-4,000
\end{gathered}
$$

$$
\text { Private savings }=4,500
$$

Now using the National savings equation

$$
\begin{aligned}
& \text { National Savings }=\text { Public Savings }+ \text { Private Savings } \\
& \text { National Savings }=-2500+4,500 \\
& \text { National Savings }=2,000
\end{aligned}
$$

2) Suppose GDP equals $\$ 12$ trillion, consumption equals $\$ 5.5$ trillion, the government spends $\$ 3$ trillion and has a budget surplus of $\$ 500$ billion. Find public saving, taxes, private saving, national saving, and investment.

Given: $\mathbf{Y}=12, \mathbf{C}=5.5, \mathbf{G}=3.0, \mathbf{T}-\mathbf{G}=0.5 \mathrm{tr}$
Public saving $=\mathbf{T}-\mathbf{G}=0.5$ tr
Taxes: $\mathbf{T}=\mathbf{G}+0.5=3+0.5=3.5 \mathrm{tr}$
Private saving $=\mathbf{Y}-\mathbf{T}-\mathbf{C}=12-3.5-5.5=3$ tr
National saving $=\mathbf{Y}-\mathbf{C}-\mathbf{G}=12-5.5-3=3.5$ tr
Investment $=$ national saving $=3.5$ tr

