a. To find the change in national income we use the formula $m e=\Delta Y / \Delta E$, so $\Delta Y=m e^{*} \Delta E$, where $\Delta E$ - deficiency of aggregate expenditure of $\$ 4 \mathrm{bn}, \Delta \mathrm{Y}$ - change in national income, me - multiplier.
 propensity to import.
$\mathrm{me}=1 /\left(1-(0.8-0.25)^{*}(1-0.3)\right)=1 /\left(1-0.55^{*} 0.7\right)=1 / 0.615=1.626$
So, $\Delta Y=4 * 1.626=\$ 6.5 \mathrm{bn}$
b. As we can see the government's forecast that the $\$ 2 b n$ in extra state spending is sufficient to remove the deflationary gap and restore full employment was true, so this extra spending will result in $\$ 6.5 \mathrm{bn}$ increase in national income with the help of only extra $\$ 2 \mathrm{bn}$.

