



W = m c $\triangle \mathrm{T}$
Water side
$\mathrm{q}=132 \mathrm{~g}(4.183) 1.2 \mathrm{~K}=$
$662.5872 \mathrm{~J}=-662.5872 \mathrm{~J}$ lost
$-662 . .=63 \mathrm{~g}(\mathrm{c})$-80.8 K
$\mathrm{c}=.13 \mathrm{~J} / \mathrm{g} \mathrm{K}$
Either lead or gold.
Check for color to determine which
5.25 mol of He at $34^{\circ} \mathrm{C}$ is mixed
with 24.3 mol of $\mathrm{H}_{2}$ and the system
comes to equilibrium at $14{ }^{\circ} \mathrm{C}$,
what was the initial temperature
of the hydrogen?




