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a) $m = 1.5\ kg$

$C_{Cu} = 387\ J/kg \cdot C$

$v = 3.0\ m/s$

85% of KE is transferred into Q

$85\% \cdot KE = Q$

$(.85) \cdot \frac{1}{2} \cdot m \cdot v^2 = m \cdot c \cdot \Delta T$

$(.85) \cdot \frac{1}{2} \cdot (1.5\ kg) \cdot (3.0\ m/s)^2 = (1.5\ kg)(387\ J/kg^\circ C) \Delta$

$\boxed{\Delta T = .0099\ ^\circ C}$