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The results are:  $(z) = a + bz + cz^2 = 1.20252 - 0.101674z + 0.0022375z^2$  for the unit of  $\text{kg/m}^3$ , (or,  $(z) = (1.20252 - 0.101674z + 0.0022375z^2) \cdot 10^3$  for the unit of  $\text{kg/km}^3$ ) where  $z$  is the vertical distance from the earth surface at sea level. At  $z = 7$  km, the equation would give  $\rho = 0.60 \text{ kg/m}^3$ .

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coffee on his table warmed up to 800C by picking up energy from the



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1-5C Kg-mass is the mass unit in the SI system whereas kg-force is a force unit. 1-kg-force is the force required to accelerate a 1-kg mass by 9.807 m/s.

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