

Section 10.1 (Mass Energy)

1. The mass-energy density is  $1.5 \times 10^{-12} \text{ kg/m}^3$ . What is the mass-energy density in  $\text{GeV}/c^2 \text{m}^3$  (approximate answer)?  
 (a)  $1.5 \times 10^{-12} \text{ GeV}/c^2 \text{m}^3$       (b)  $1.5 \times 10^{-13} \text{ GeV}/c^2 \text{m}^3$       (c)  $1.5 \times 10^{-11} \text{ GeV}/c^2 \text{m}^3$   
 (d)  $1.5 \times 10^{-14} \text{ GeV}/c^2 \text{m}^3$       (e)  $1.5 \times 10^{-15} \text{ GeV}/c^2 \text{m}^3$
2. A nucleon (proton or neutron) is about  $1.67 \times 10^{-27} \text{ kg}$ . What is the mass-energy density of a nucleon in  $\text{GeV}/c^2 \text{m}^3$  (approximate answer)?  
 (a)  $1.67 \times 10^{-27} \text{ GeV}/c^2 \text{m}^3$       (b)  $1.67 \times 10^{-28} \text{ GeV}/c^2 \text{m}^3$       (c)  $1.67 \text{ GeV}/c^2 \text{m}^3$   
 (d)  $1.67 \times 10^{-29} \text{ GeV}/c^2 \text{m}^3$       (e)  $1.67 \times 10^{-30} \text{ GeV}/c^2 \text{m}^3$
3. What is the mass-energy density of a nucleon in  $\text{GeV}/c^2 \text{m}^3$  (approximate answer)?  
 (a)  $1.67 \text{ GeV}/c^2 \text{m}^3$       (b)  $1.67 \times 10^{-27} \text{ GeV}/c^2 \text{m}^3$       (c)  $1.67 \times 10^{-28} \text{ GeV}/c^2 \text{m}^3$   
 (d)  $1.67 \times 10^{-29} \text{ GeV}/c^2 \text{m}^3$       (e)  $1.67 \times 10^{-30} \text{ GeV}/c^2 \text{m}^3$
4. The mass-energy density is  $1.5 \times 10^{-12} \text{ kg/m}^3$ . What is the mass-energy density in  $\text{GeV}/c^2 \text{m}^3$  (approximate answer)?  
 (a)  $1.5 \times 10^{-12} \text{ GeV}/c^2 \text{m}^3$       (b)  $1.5 \times 10^{-13} \text{ GeV}/c^2 \text{m}^3$       (c)  $1.5 \times 10^{-11} \text{ GeV}/c^2 \text{m}^3$   
 (d)  $1.5 \times 10^{-14} \text{ GeV}/c^2 \text{m}^3$       (e)  $1.5 \times 10^{-15} \text{ GeV}/c^2 \text{m}^3$
5. The mass-energy density is  $1.5 \times 10^{-12} \text{ kg/m}^3$ . What is the mass-energy density in  $\text{GeV}/c^2 \text{m}^3$  (approximate answer)?  
 (a)  $1.5 \times 10^{-12} \text{ GeV}/c^2 \text{m}^3$       (b)  $1.5 \times 10^{-13} \text{ GeV}/c^2 \text{m}^3$       (c)  $1.5 \times 10^{-11} \text{ GeV}/c^2 \text{m}^3$   
 (d)  $1.5 \times 10^{-14} \text{ GeV}/c^2 \text{m}^3$       (e)  $1.5 \times 10^{-15} \text{ GeV}/c^2 \text{m}^3$
6. What is the mass-energy density of a nucleon in  $\text{GeV}/c^2 \text{m}^3$  (approximate answer)?  
 (a)  $1.67 \text{ GeV}/c^2 \text{m}^3$       (b)  $1.67 \times 10^{-27} \text{ GeV}/c^2 \text{m}^3$       (c)  $1.67 \times 10^{-28} \text{ GeV}/c^2 \text{m}^3$   
 (d)  $1.67 \times 10^{-29} \text{ GeV}/c^2 \text{m}^3$       (e)  $1.67 \times 10^{-30} \text{ GeV}/c^2 \text{m}^3$
7. A nucleon (proton or neutron) is about  $1.67 \times 10^{-27} \text{ kg}$ . What is the mass-energy density of a nucleon in  $\text{GeV}/c^2 \text{m}^3$  (approximate answer)?  
 (a)  $1.67 \text{ GeV}/c^2 \text{m}^3$       (b)  $1.67 \times 10^{-27} \text{ GeV}/c^2 \text{m}^3$       (c)  $1.67 \times 10^{-28} \text{ GeV}/c^2 \text{m}^3$   
 (d)  $1.67 \times 10^{-29} \text{ GeV}/c^2 \text{m}^3$       (e)  $1.67 \times 10^{-30} \text{ GeV}/c^2 \text{m}^3$

Section 10.2 (Energy)

1. The mass-energy density is  $1.5 \times 10^{-12} \text{ kg/m}^3$ . What is the mass-energy density in  $\text{GeV}/c^2 \text{m}^3$  (approximate answer)?  
 (a)  $1.5 \times 10^{-12} \text{ GeV}/c^2 \text{m}^3$       (b)  $1.5 \times 10^{-13} \text{ GeV}/c^2 \text{m}^3$       (c)  $1.5 \times 10^{-11} \text{ GeV}/c^2 \text{m}^3$   
 (d)  $1.5 \times 10^{-14} \text{ GeV}/c^2 \text{m}^3$       (e)  $1.5 \times 10^{-15} \text{ GeV}/c^2 \text{m}^3$

# Physical Science Chapter 17 Test Answers

**Michal Rosen-Zvi**



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