Science 1206, Physics Unit NAME:_____

Quiz 1 (Significant Figures & Metric System)

Circle the letter of the correct response.

1. How many significant figures are in the measurement 1.408 m?
   A) 1
   B) 2
   C) 3
   D) 4

2. How many significant figures are in the measurement 3.210 m?
   A) 1
   B) 2
   C) 3
   D) 4

3. How many significant figures are in the measurement 3000 m?
   A) 1
   B) 2
   C) 3
   D) 4

4. How many significant figures are in the measurement 0.410 m?
   A) 1
   B) 2
   C) 3
   D) 4

5. How many significant figures are in the measurement 0.041 m?
   A) 1
   B) 2
   C) 3
   D) 4

6. How many significant figures are in the measurement 1.00 m?
   A) 1
   B) 2
   C) 3
   D) 4

7. Stated to the correct number of significant figures, what is the sum of the following operation? 27.2 s + 14.57 s
   A) 41.7 s
   B) 41.77 s
   C) 41.8 s
   D) 42 s

8. Stated to the correct number of significant figures, what is the product of the following operation? 3.72 m x 4.8 m
   A) 18 m^2
   B) 17.9 m^2
   C) 17.86 m^2
   D) 17.856 m^2

9. What is the measurement, 42 km, written in m?
   A) 0.042 m
   B) 0.42 m
   C) 4 200 m
   D) 42 000 m

10. What is the measurement, 78 g, written in mg?
   A) 0.078 mg
   B) 0.78 mg
   C) 7 800 mg
   D) 78 000 mg

11. What is the measurement, 23.5 cm, written in m?
   A) 0.0235 m
   B) 0.235 m
   C) 235 m
   D) 2350 m

12. What is the measurement, 31.0 μs, written in ks?
   A) 31.0 x 10^{-9} ks
   B) 31.0 x 10^{-6} ks
   C) 31.0 x 10^{9} ks
   D) 31.0 x 10^{6} ks

13. What is the measurement, 27.6 MJ, written in μJ?
   A) 27.6 x 10^{-6} J
   B) 27.6 x 10^{-12} J
   C) 27.6 x 10^{6} J
   D) 27.6 x 10^{12} J

14. What is the measurement, 14 GBytes, written in MBytes?
   A) 14 x 10^{3} MBytes
   B) 14 x 10^{6} MBytes
   C) 14 x 10^{9} MBytes
   D) 14 x 10^{15} Mbytes

15. What is the measurement, 1.0 nm, written in km?
   A) 1.0 x 10^{-12} km
   B) 1.0 x 10^{-9} km
   C) 1.0 x 10^{-6} km
   D) 1.0 x 10^{-3} km