Ch 4 Practice Test Answer

1. $(\frac{2}{5})^4$
2. $(2y-9)^5$
3. 153
4. $10^{-3}$
5. $\frac{1}{6^4}$; $6^{-4}$
6. $10^4$; $1 \times 10^4$
7. 250,047; $2.50047 \times 10^5$
8. $6.35 \times 10^{11}$
9. Human
10. 0.031613
11. 14,000
12. 15 times
13. $5 \times 10^4$; 50,000
14. 13
15. 0
16. 6 and 7
17. no ; sample answer $\sqrt[3]{2}$
18. 100 in
19. a) $neutron \approx 2 \times 10^{-27} kg$ $and\ electron\ 9 \times 10^{-31} kg$
    b) $2 \times 10^{-27} kg$
    c) 2000 times