**Powering the Future: Striking a Balance** **Name:_____**

1. By 2050 the world's population will increase to _____ billion, thus we will need _____ % more energy to power the planet.
2. Oil and coal threaten our environment as well as our _____.
3. Airplanes log _____ million miles burning _____ million gallons of jet fuel.
4. Cargo ships travel over _____ million miles using _____ million gallons of _____.
5. _____ million metric tons of _____ are burned to fuel our electricity needs.
6. How many terra watts of energy are used every moment? _____
7. What is the unit of power called? _____
8. What percent of energy supply currently comes from fossil fuels? _____
9. What amount comes from oil? _____ coal? _____natural gas?_____
10. Every _____ second around the globe one baby is born.
11. How many people are added to the world every single day? _____
12. Most American's use _____ light bulbs of power, whereas Europeans only use half as much _____, Asian's _____, and African's _____.
13. Homes and work places account for _____ of energy use.
14. Since the 1950's our energy use in the home has _____.
15. The average home has _____ devices plugged in at any given time.
16. If everyone used the amount of power that American's used we would need _____Earth's to sustain itself.
17. Raising cows for beef uses _____ times more fossil fuels than a meal of chicken, and _____ times more than a plate of vegetables.
18. _____ is at the center of our entire economy.
19. In the U.S. we consume more than _____ millions of gallons of oil a day.

20. It takes _____ million years to produce 1.7 trillion barrels of _____.

21. How much oil is trapped in the oil sands of Canada? _____

22. Every 2 tons of material forms _____ barrels of oil.

23. In order to extract the oil it requires extreme _____, enormous amounts of _____, and a whole lot of _____.

24. It takes _____ to make energy.

25. One century ago it would take 1 barrel to extract _____ barrels. Today it takes 1 barrel to get _____ barrels. In the oil sands it takes 1 barrel to produce _____.

26. What gas is produced by the burning of fossil fuels? _____
How much is produced by a SUV per mile? _____ Airplanes? _____

27. By 2050, in order to product our climate fossil fuel usage needs to drop from 80% to _____ percent.

28. Just by cutting driving in half we would save 2% of global demand which would be _____ billion gallons of oil.

29. _____ is building _____ New York city's every year.

30. Nuclear power provides _____ % of the world's power.

31. Hydroelectric power can supply about _____ of our total global energy needs, only if you _____ every single river on the entire planet.

32. There is enough wind power to power the planet _____ x over.

33. Where in the U.S is ground zero for geothermal energy? _____

34. Where is the hot spot for solar energy? _____

35. About _____ thousand miles of transmission lines carry power across the U.S.

36. The United States has the fastest growing _____.

**37.** We can strike the balance if we _____ our energy needs, and upping our clean and _____ supply.