

Name _____ Period _____

Hurray for Mole Day

1. In chemistry, what is a mole? _____

2. Why is today mole day? _____

3. What is a mole in scientific notation? _____

4. What is a mole in regular numbers? _____

5. Why do we care what a mole is? _____

6. How much does a mole of helium weigh? _____

7. How much does a mole of Uranium weigh? _____

8. If a paperclip weighs one gram, how much would a mole of paperclips weigh in grams?

9. How much is that in kilograms? _____

10. $1 \text{ kg} = 2.2 \text{ lbs}$. How much is that in pounds? _____

11. $1 \text{ ton} = 2000 \text{ lbs}$. How much is that in tons? _____

12. If you had a mole of aluminum cans stacked across the continental U.S., how high would it reach?

13. How much does a mole of sodium hydroxide (NaOH) weigh? _____

14. Suppose you were mixing a 1 Molar solution of NaOH. How do you do that?

15. How do you mix a 5 molar solution?

16. Who "owns" the mole? _____

