

# 1 Atomic Structure

## 1.1 atomic number and mass

1. The \_\_\_\_\_ is the number of \_\_\_\_\_ in the nucleus of an atom.
2. The \_\_\_\_\_ is the total number of \_\_\_\_\_ and \_\_\_\_\_ in the nucleus of an atom.

3.



What does the 1 mean?

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4.



5. What does the 4 mean?

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6. What does the 2 mean?

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7.



How many protons does Lithium have? \_\_\_\_\_

How many neutrons does Lithium have? \_\_\_\_\_

8.

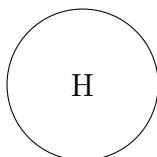


based on this symbol, how many protons does Hydrogen have? \_\_\_\_\_

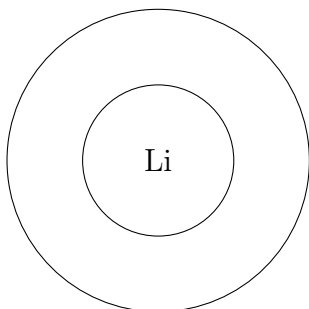
How many neutrons? \_\_\_\_\_

## 1.2 The Bohr model

9. The Bohr Model - Bohr proposed that an atom was a nucleus with electrons "orbiting" in different \_\_\_\_\_.
10. Electrons can only have certain energy values known as \_\_\_\_\_
11. The electrons closest to the nucleus have the \_\_\_\_\_ energy, while those further from away have \_\_\_\_\_ energy.
12. draw the electron configuration for H



13. draw the electron configuration for Li



14. draw the electron configuration for Na

