

Unit 3

Modeling Atomic Structure

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PACS

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The _____ is the number of _____ in the nucleus of an atom.

The **atomic number** is the number of in the nucleus of an atom.

The **atomic number** is the number of **protons** in the nucleus of an atom.

The _____ the total number of _____ and _____ in the nucleus
of an atom.

The **mass number** is the total number of protons and neutrons in the nucleus of an atom.

The **mass number** is the total number of **protons** and **neutrons** in the nucleus of an atom.

The **mass number** the total number of **protons** and **neutrons** in the nucleus of an atom.





What does the 1 mean?



What does the 1 mean?

1 is the total number of neutrons and protons.





What does the 4 mean?



What does the 4 mean?

4 is the total number of neutrons and protons.



What does the 4 mean?

4 is the total number of neutrons and protons.

What does the 2 mean?



What does the 4 mean?

4 is the total number of neutrons and protons.

What does the 2 mean?

2 is the number of protons.





How many protons does Lithium have?



How many protons does Lithium have?

3



How many protons does Lithium have?

3

How many neutrons?



How many protons does Lithium have?

3

How many neutrons?

$$7 - 3 =$$



How many protons does Lithium have?

3

How many neutrons?

$$7 - 3 = 4$$