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

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

in the nucleus

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

3/7

 $^{1}\mathrm{H}$

4/7

 ^{1}H

What does the 1 mean?

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 $^{1}\mathrm{H}$

What does the 1 mean?

1 is the total number of neutrons and protons.

 ${}^4_2{
m He}$

 ${}^4_2{
m He}$

What does the 4 mean?

 $_{2}^{4}\mathrm{He}$

What does the 4 mean?

4 is the total number of neutrons and protons.

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 $_{2}^{4}\mathrm{He}$

What does the 4 mean?

4 is the total number of neutrons and protons.

What does the 2 mean?

 $_{2}^{4}\mathrm{He}$

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.

 $^7_3\mathrm{Li}$

 $_3^7 \mathrm{Li}$

How many protons does Lithium have?

 $_{3}^{7}\mathrm{Li}$

How many protons does Lithium have? 3

 $_3^7 \mathrm{Li}$

How many protons does Lithium have? 3 How many neutrons?

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 $^{7}_{3}\mathrm{Li}$

How many protons does Lithium have? 3 How many neutrons?

7 - 3 =

 $^{7}_{3}\mathrm{Li}$

How many protons does Lithium have? 3 How many neutrons?

$$7 - 3 = 4$$



The Great Dane