Chemistry 115 Name

Dr. Cary Willard

Quiz 4A (20 points) September 29, 2009

All work must be shown to receive credit. Avogadro’s number = 6.022 x 1023/mol

1. (2 points) What did John Dalton say about the composition of matter? That is what is matter made of according to John Dalton?
2. (4 points) In what ways are isotopes alike? In what ways are they different?
3. (4 points) An unknown element contains 36 protons and 42 neutrons.
   1. What is the atomic number of this element?
   2. What is the mass number of this element?
   3. What is the symbol of the element
   4. Write the element with its correct isotopic notation.
4. (2 points) What is the atomic mass of molybdenum (Mo)?
5. (4 points) Calculate the mass of 3.54 moles of zinc.
6. (4 points) Calculate the number of atoms of magnesium in 5.38 moles of magnesium

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Quiz 4B (20 points) September 29, 2009

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1. (2 points) What did John Dalton say about the composition of matter? That is what is matter made of according to John Dalton?
2. (4 points) In what ways are isotopes alike? In what ways are they different?
3. (4 points) An unknown element contains 47 protons and 58 neutrons.
   1. What is the atomic number of this element?
   2. What is the mass number of this element?
   3. What is the symbol of the element
   4. Write the element with its correct isotopic notation.
4. (2 points) What is the atomic mass of astatine (At)?
5. (4 points) Calculate the mass of 6.78 moles of zinc.
6. (4 points) Calculate the number of atoms of magnesium in 2.88 moles of magnesium

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Quiz 4C (20 points) September 30, 2009

All work must be shown to receive credit. Avogadro’s number = 6.022 x 1023/mol

1. (2 points) What did John Dalton say about the composition of matter? That is what is matter made of according to John Dalton?
2. (4 points) In what ways are isotopes alike? In what ways are they different?
3. (4 points) An unknown element contains 25 protons and 31 neutrons.
   1. What is the atomic number of this element?
   2. What is the mass number of this element?
   3. What is the symbol of the element
   4. Write the element with its correct isotopic notation.
4. (2 points) What is the atomic mass of osmium (Os)?
5. (4 points) Calculate the mass of 6.99 moles of silicon.
6. (4 points) Calculate the number of atoms of calcium in 1.67 moles of calcium.

Chemistry 115 Name

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Quiz 4D (20 points) September 30, 2009

All work must be shown to receive credit. Avogadro’s number = 6.022 x 1023/mol

1. (2 points) What did John Dalton say about the composition of matter? That is what is matter made of according to John Dalton?
2. (4 points) In what ways are isotopes alike? In what ways are they different?
3. (4 points) An unknown element contains 42 protons and 61 neutrons.
   1. What is the atomic number of this element?
   2. What is the mass number of this element?
   3. What is the symbol of the element
   4. Write the element with its correct isotopic notation.
4. (2 points) What is the atomic mass of yttrium (Y)?
5. (4 points) Calculate the mass of 3.85 moles of silicon.
6. (4 points) Calculate the number of atoms of calcium in 2.67 moles of calcium.

Chemistry 115 Name

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Quiz 4E (20 points) October 1, 2009

All work must be shown to receive credit. Avogadro’s number = 6.022 x 1023/mol

1. (2 points) What did John Dalton say about the composition of matter? That is what is matter made of according to John Dalton?
2. (4 points) In what ways are isotopes alike? In what ways are they different?
3. (4 points) An unknown element contains 38 protons and has a mass number of 82.
   1. What is the atomic number of this element?
   2. How many neutrons are in this element?
   3. What is the symbol of the element
   4. Write the element with its correct isotopic notation.
4. (2 points) What is the atomic mass of thallium (Tl)?
5. (4 points) Calculate the mass of 5.98 moles of phosphorus.
6. (4 points) Calculate the number of atoms of lithium in 3.24 moles of lithium

Chemistry 115 Name

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Quiz 4E (20 points) October 1, 2009

All work must be shown to receive credit. Avogadro’s number = 6.022 x 1023/mol

1. (2 points) What did John Dalton say about the composition of matter? That is what is matter made of according to John Dalton?
2. (4 points) In what ways are isotopes alike? In what ways are they different?
3. (4 points) An unknown element contains 44 protons and has a mass number of 96.
   1. What is the atomic number of this element?
   2. How many neutrons are in this element?
   3. What is the symbol of the element
   4. Write the element with its correct isotopic notation.
4. (2 points) What is the atomic mass of xenon (Xe)?
5. (4 points) Calculate the mass of 6.91 moles of phosphorus.
6. (4 points) Calculate the number of atoms of lithium in 4.52 moles of lithium