

**MINISTRY OF EDUCATION**  
**SECONDARY ENGAGEMENT PROGRAMME**  
**GRADE 11**  
**CHEMISTRY**

**Week 2**

**Lesson 2 – Worksheet 1**

**Choose the correct answer**

1. Alkenes have a \_\_\_\_\_ bond.
  - a) single
  - b) double
  - c) triple
  - d) crystal
  
2. What elements make up an Alkene?
  - a) carbon and hydrogen
  - b) carbon and nitrogen
  - c) carbon and oxygen
  - d) carbon and chlorine
  
3. An Alkene with 4 Carbon atoms per molecule is called \_\_\_\_\_.
  - a) Butene
  - b) Pentene
  - c) Heptene
  - d) Nonene
  
4. Which of the following does NOT exist?
  - a) Methene
  - b) Ethene
  - c) Hexene
  - d) Decene

5. How many hydrogen atoms are present in one molecule of an alkene with 7 carbon atoms per molecule?

- a) 7
- b) 9
- c) 14
- d) 16

**Answer the following with TRUE or FALSE.**

1. The General Formula for Alkenes is  $C_nH_{2n+2}$ . \_\_\_\_\_
2. Alkanes are not used to manufacture other chemicals. \_\_\_\_\_
3. Alkanes have a double bond. \_\_\_\_\_
4. Alkanes are described as saturated compounds. \_\_\_\_\_
5. Alkanes are used to manufacture plastics. \_\_\_\_\_

**Fill in the blanks**

Number of Carbon atoms per molecule	Name of Alkene Compound
3	_____
_____	Pentane
7	_____
_____	Octene

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**Lesson 2: Worksheet – Answers**

**Choose the correct answer**

2. Alkenes have a \_\_\_\_\_ bond.

- e) single
- f) double**
- g) triple
- h) crystal

2. What elements make up an Alkene?

- e) carbon and hydrogen**
- f) carbon and nitrogen
- g) carbon and oxygen
- h) carbon and chlorine

3. An Alkene with 4 Carbon atoms per molecule is called \_\_\_\_\_.

- e) Butene**
- f) Pentene
- g) Heptene
- h) Nonene

4. Which of the following does NOT exist?

- e) Methene**
- f) Ethene
- g) Hexene
- h) Decene

5. How many hydrogen atoms are present in one molecule of an alkene with 7 carbon atoms per molecule?

- e) 7
- f) 9
- g) 14**
- h) 16

Answer the following with TRUE or FALSE.

- 6. The General Formula for Alkenes is  $C_nH_{2n+2}$ . **FALSE**
- 7. Alkanes are not used to manufacture other chemicals. **FALSE**
- 8. Alkanes have a double bond. **TRUE**
- 9. Alkanes are described as saturated compounds. **FALSE**
- 10. Alkanes are used to manufacture plastics. **TRUE**

Fill in the blanks

Number of Carbon atoms per molecule	Name of Alkene Compound
3	<b><u>PROPENE</u></b>
<b><u>5</u></b>	Pentane
7	<b><u>HEPTENE</u></b>
<b><u>8</u></b>	Octene