

Topic : carbon compound

Subtopic : alkane

Based on the structural formula given,

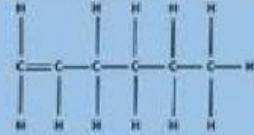
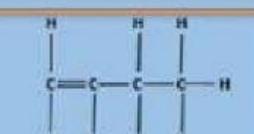
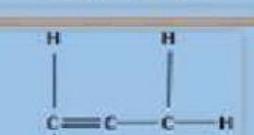
1. Type the number of carbon and hydrogen number in the molecular formula
2. Type the name of the following alkane

structural formula	molecular formula	name
$\begin{array}{c} \text{H} \\ \\ \text{H} - \text{C} - \text{H} \\ \\ \text{H} \end{array}$	CH_\square	
$\begin{array}{ccc} \text{H} & \text{H} & \text{H} \\ & & \\ \text{H} - \text{C} - \text{C} - \text{C} - \text{H} \\ & & \\ \text{H} & \text{H} & \text{H} \end{array}$	$\text{C}_\square\text{H}_\square$	
$\begin{array}{ccccc} \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \\ & & & & \\ \text{H} - \text{C} - \text{C} - \text{C} - \text{C} - \text{C} - \text{H} \\ & & & & \\ \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \end{array}$	$\text{C}_\square\text{H}_\square$	
$\begin{array}{ccccccc} \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \\ & & & & & & \\ \text{H} - \text{C} - \text{H} \\ & & & & & & \\ \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \end{array}$	$\text{C}_\square\text{H}_\square$	
$\begin{array}{cc} \text{H} & \text{H} \\ & \\ \text{H} - \text{C} - \text{C} - \text{H} \\ & \\ \text{H} & \text{H} \end{array}$	$\text{C}_\square\text{H}_\square$	
$\begin{array}{ccccccc} \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \\ & & & & & & \\ \text{H} - \text{C} - \text{C} - \text{C} - \text{C} - \text{C} - \text{C} - \text{H} \\ & & & & & & \\ \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \end{array}$	$\text{C}_\square\text{H}_\square$	
$\begin{array}{cccc} \text{H} & \text{H} & \text{H} & \text{H} \\ & & & \\ \text{H} - \text{C} - \text{C} - \text{C} - \text{C} - \text{H} \\ & & & \\ \text{H} & \text{H} & \text{H} & \text{H} \end{array}$	$\text{C}_\square\text{H}_\square$	

Subtopic : alkene

Based on the number of carbon given,

1. Type the name of the following alkene
2. Type the number of carbon and hydrogen number in the molecular formula
3. Match the structural formula with the molecular number

Number of carbon	Name	molecular formula	structural formula
3		C H	
4		C H	
5		C H	
6		C H	
7		C H	