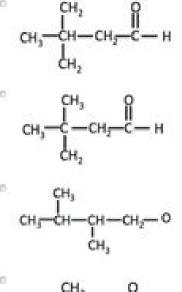
Organic nomenclature alkanes worksheet

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## Quiz & Worksheet - Structural Formula

1. Which of the following shows the correct condensed structural formula of a compound that has five carbon (C) atoms, 12 hydrogen (H) atoms and one oxygen (O) atom?



CH3-—СН\_—С— Н ĊH<sub>3</sub>

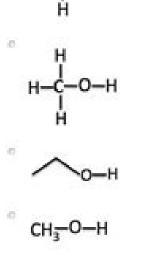
2. Which of the following is the correct skeletal structural formula for the following compound?

н-с-с-с-с-с-с-с-

3. What is the correct line-bond structural formula for the compound shown below? (The black dots are bonding electrons between the atoms and the red dots are nonbonding electrons.) Hint: Since this is an organic compound, nonbonding electrons are, in general, not shown in the line-bond structural formula

Н H:C:O:H Ĥ

н о І ІІ н–с–с— н



 $(m_{1}, \dots, m_{n})$ 

 $(a,b,b,c) \in \mathcal{C}_{\mathcal{C}}$ 

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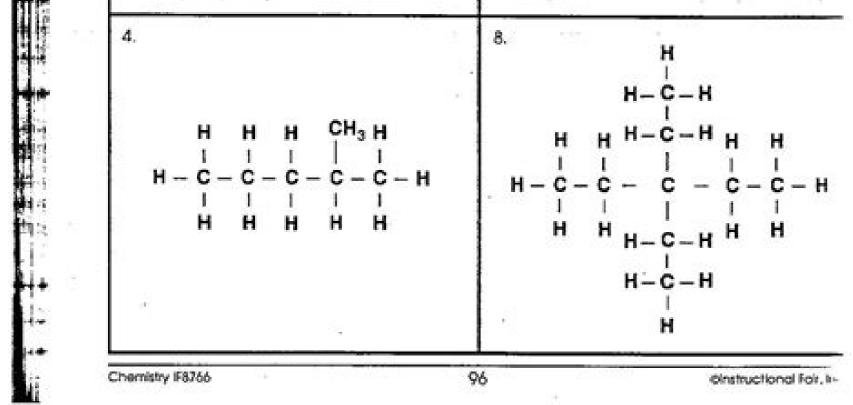


## NAMING HYDROCARBONS

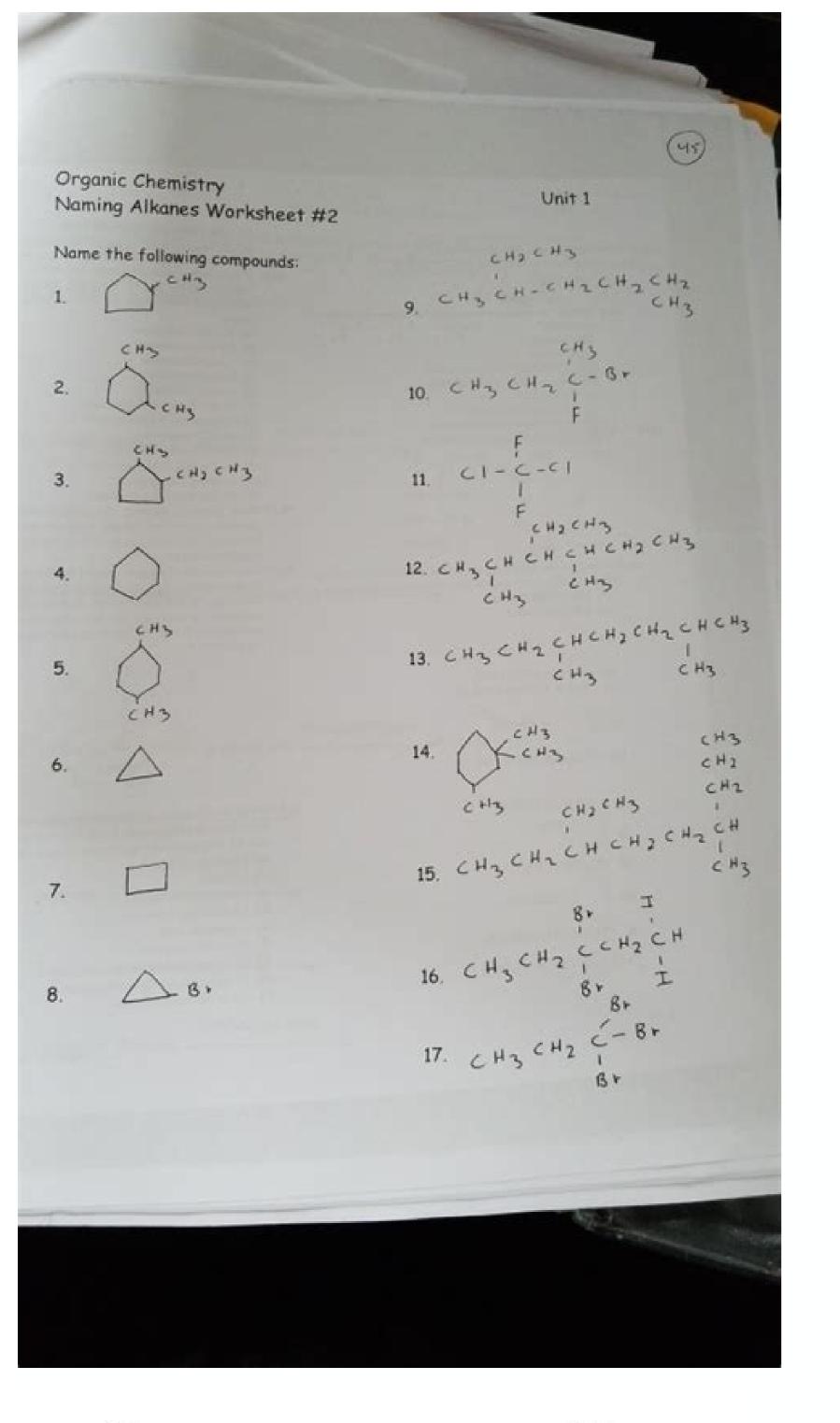
Name.

Name the compounds below according to the IUPAC naming system

1. H H H H - C - C - C - H I I I H - H H	5. $H$ $H$ $H$ H - C - C - C - H H - H - C - H H $H - C - HH$ $H$ $H - C - HH$ $H$ $H - C - H$
2. H H H H H - C = C - C - C - H H H H - H	6. $H = CH_3 H$ H = C = C = C = H H = H H H = H H H H H H H H
3. $\mathbf{H} - \mathbf{C} \equiv \mathbf{C} - \mathbf{C} - \mathbf{H}$ $\mathbf{H} + \mathbf{H}$	7. H H H H H I I I I I H - C - C = C - C - C - H I I H H H



32

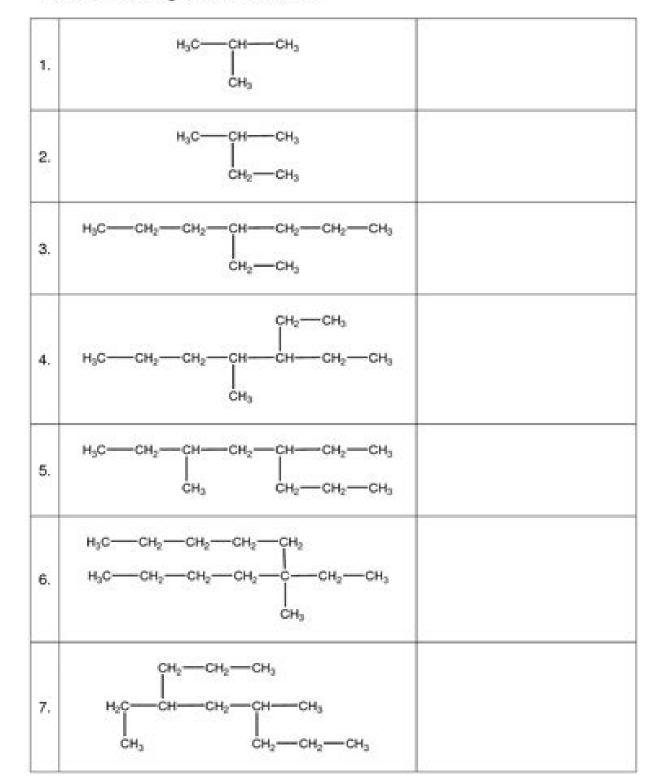


Name

Period \_\_\_\_\_

## Naming Alkanes – Worksheet #1

## Name the following branched alkanes:



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Naming organic compounds alkanes. How to name alkanes in organic chemistry. How to name organic compounds with examples.

Report this resource to let us know if it violates our terms and conditions. Our custome service team will review your report and will be in touch. In today's post, we will talk about the UPAC rules for systematic nonmon names, we are of the first ten alkanes: Assuming you have already mastered those, let's draw a structure and name it simply based on the molecules get branched out. For example, what if we add a methyl (CH3) group to pentane?This group is considered a substituent, an additional group (s) known as substituents. There are certain rules for determining the parent chain and the substituents as halide, an OH, an itro group, etc. Alkyl groups are formed by render level (e' name it molecule) (all of an and the substituents. So, remember, we distinguish two units; the "asia part" of the molecule as a halide, an OH, an itro group, etc. Alkyl groups are formed by render lakyl groups, or any other functional group substite the parent chain. The event of all so perfixes, etc. etc. and all so perfixes, etc. etc. and is operfixes, etc. etc. and is and exen amed be longest cannot chain is determined based on the longest cannot chain is determined based on the longest cannot chain is perfected is used in the longest cannot chain is perfected in the molecule. As an example, let's consider molecule is an ending alkane and in group is considered as used and etc. and is determined based on the number of substituents. When a ring is present, the aperent chain. No equilated is the example is perfixed, and the example is perfixed as used and the example is perfixed as used and entertain of euclides and exel and ello and exel and ello and exel and ello and exel

(over)

- diThree - triFour - tetraFive - pentaSix - hexaSeven - heptaEight - octaLet's also consider the other option of having two methyl groups on pentane:Notice that, in this case, regardless of where we start the numbering, the first methyl gets locant 2, and the second one gets 4. Therefore, it is 2,4-dimethylpentane.Now, the question comes - what if there is a third substituent and it does matter where to start numbering?To answer this, let's consider heptane with three methyl groups:Starting from let not in the reit, you start from the left, you start form being dives 2,3.6-trimethylheptane.Now, when there is a set for the location of the first substituent, compare the substituent, compare the substituent, compare the substituent, compare the substituent. Step and the correct parent folian. Alphabetical order in tuPAC maning50 for, we have considered having identical priority gets the lower locant.For example, having a bromine and chlorine on both ends of hexane brings up the need of prioritizing the substituents hased on the correct parent chain. Alphabetical order in tuPAC maning50 for, we have considered having identical priority of prefixes 2, 8-trimethyl heptane.Now, suppose we need to name though the methyl group site 1 - Sinth as sechard, let wo options, 2-methyl is better than 4-ethyl.Step 1. Find the substituents. In this case, we have a methyl and an ethyl group with the locant 6 is still placed before it. The alphabetical priority of prefixes None of the explexituent with use sechard in why isos is privileged...Naming complex substituents such as sechard, let wo options, 2-methyl is better than 4-ethyl.Step 4. Put the parent chain and substituents neads to follow certain rules. The group substituents as sechard, let wo options, so the parent chain is nonane. Step 2. Find the substituent such as sechard, let why isos is privileged...Naming complex substituents were as sechard as let wo options, 2-methyl is better than 4-ethyl.S

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