|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | **Functional Groups-2** | | Name:  Date: | | |
|  | | | | |
| 1. Draw and name the ***cis*** and ***trans*** condensed AND skeletal structure of: | | | | | |
| ***cis*** structure | | | ***trans*** structure | | |
| Name: | | | Name: | | |
|  |  | | | |  |
|  |  | | | |  |
|  |  | | | |  |
|  |  | | | |  |
|  |  | | | | 2-cis-hexene |
|  |  | | | | 2-methyl-3-cis-hexene |
|  |  | | | |  |
|  |  | | | |  |
|  |  | | | |  |
|  |  | | | |  |
|  |  | | | | 3-ethylhexanal |
|  |  | | | | 2,2-dimethyl-3-pentanone |
|  |  | | | | 4,4,5-trifluoroheptanal |
|  |  | | | | 5-chloro-4-ethyl-6-methyl-3-octanone |

1. What is the smallest ketone possible? Explain.
2. Determine the errors in the following names and give the correct name
   1. 1-butanone
   2. 3-pentanal
   3. 3-ethyl-2-methylbutanal