	e) Hydrogenate aromatics to saturated hydrocarbons
2.	The most common gasoline <u>anti-knock agent</u> until about 1975 was: a) Pb(CH <sub>2</sub> CH <sub>3</sub> ) <sub>4</sub> b) ethanol c) methanol d) benzene e) manganese
3.	Syn gas is a major starting material for many industrial processes; what is it comprised of? a) $H_2$ b) $CO + H_2$ c) $CO$ d) $H_2O + H_2$ e) $H_2 + CO_2$
4.	<ul> <li>Which of the following statements about <u>hydraulic fracturing (fracking)</u> is <u>true</u>?</li> <li>a) Uses mostly water as the fluid</li> <li>b) Can trigger seismic activity</li> <li>c) Fracture zone is far below ground water levels</li> <li>d) Main non-water component in 'fracking fluid' is sand or ceramic powder</li> <li>e) All of the above</li> </ul>

1. What is the main purpose of a <u>'reformer'</u> in petroleum refining?
a) Decrease percentage of branched chain hydrocarbons
b) Shorten long chain hydrocarbons to C6-C10 chain length

d) Increase the percentage of branched chain hydrocarbons

c) Convert saturated hydrocarbons to alkenes