Naming Alkanes – Worksheet #1

Name the following branched alkanes:

1.	H ₃ C——CH——CH ₃ CH ₃	
2.	H ₃ C	
3.	H ₃ C	
4.	CH ₂ —CH ₃ H ₃ C—CH ₂ —CH ₂ —CH—CH—CH ₂ —CH ₃ CH ₃	
5.	H ₃ C—CH ₂ —CH—CH ₂ —CH—CH ₂ —CH ₃ CH ₃ CH ₂ —CH ₂ —CH ₃	
6.	H_3C — CH_2 — CH_2 — CH_2 — CH_2 H_3C — CH_2 — CH_2 — CH_2 — CH_2 — CH_3 CH_3	
7.	CH_{2} — CH_{2} — CH_{3} $H_{2}C$ — CH — CH_{2} — CH — CH_{3} CH_{3} CH_{2} — CH_{2} — CH_{2} — CH_{3}	

Draw structural formulas for the following molecules. Remember the following:

•	Carbons	on the	end o	f a	chain	are	attached	to	three	hy	/drog	ens

- Carbons in the middle of a chain are attached to two hydrogens
- · Carbons that have one branch attached are also attached to one hydrogen
- Carbons that have two branches attached are not attached to any hydrogens.
- 8. 4-ethyl-octane
- 9. 2-methyl-nonane

10. 2-methyl-2-ethyl-butane

11.3-ethyl-pentane

12. 2-methyl-3-ethyl-heptane