Answer the following in the space provided:

1. What is the invisible, odorless and poisonous gas that is a byproduct of combustion?

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1. Gasoline is obtained by processing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Name three negative effects that gasoline can have on a person’s health.
3. Gasoline is best removed from your hands by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. A gasoline fire is considered a class \_\_\_\_\_\_\_ fire.
5. Never use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to put out a gas fire.
6. In the space below, draw the strokes of a four stroke internal combustion engine. Indicate the direction of the piston, the location of the valves and name the strokes.
7. What draws the fuel/air mixture into the engine?
8. Does the sparkplug fire at TDC?
9. Why are most motor vehicles using four stroke engines as opposed to two stroke (two reasons)?
10. Explain why two stroke engines are widely used in hand-held devices such as chainsaws, and in motorcycles.

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1. How does a two stroke engine get lubrication?
2. What do most engines have to help control exhaust noise?
3. How does increasing the surface area of an engine block increase cooling ability?
4. Simple carburetors operate on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ principle.
5. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is in place on small engines to maintain a desired speed regardless of load.
6. How is oil spread around the interior of the crankcase on many four stroke engines?
7. What is placed between two surfaces to keep fluids from leaking out?
8. The lobes on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cause the valves to open or close.
9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ seal exhaust gasses in the combustion chamber and scrape excess oil from the cylinder walls.

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