

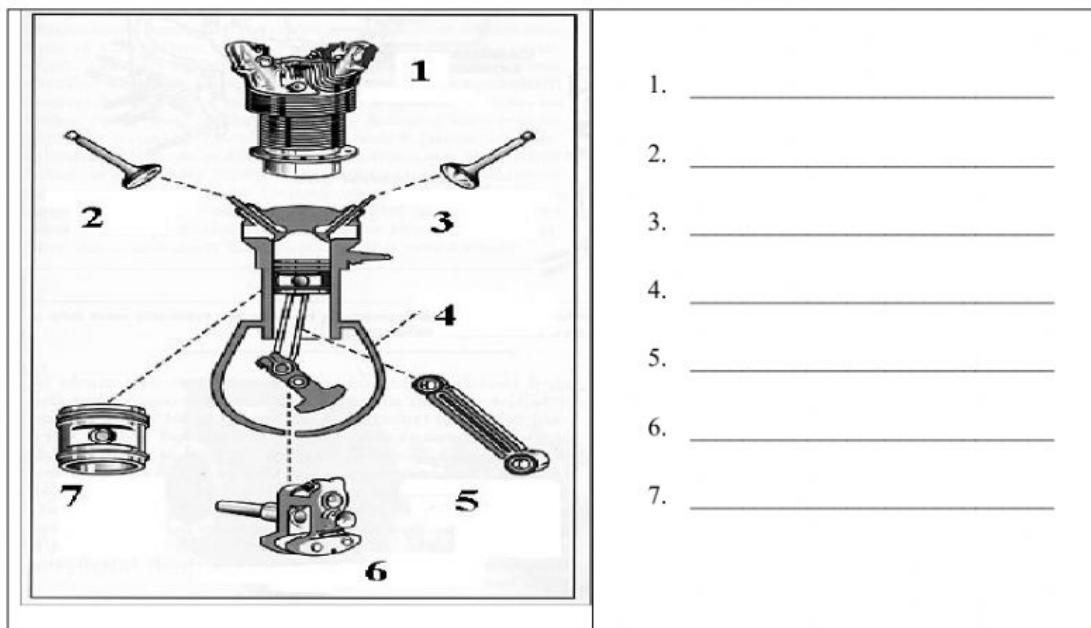
## TEST- piston engines

name: \_\_\_\_\_

### I FILL IN THE MISSING WORD:

1. The entire system in a reciprocating engine that carries air into the engine cylinders is called \_\_\_\_\_.
2. The chamber in which a piston of a reciprocating engine moves is called \_\_\_\_\_.
3. \_\_\_\_\_ helps to minimize drag and cools the engine and it is hinged covering over an installed engine.
4. A device for continuously supplying the optimum fuel-air mixture to the cylinders of a reciprocating engine is called \_\_\_\_\_.
5. \_\_\_\_\_ is a system of pipes which feeds fuel to the various cylinders of a multicylinder internal combustion engine.

### II NAME THE PARTS OF A PISTON ENGINE YOU SEE ON THE PICTURE:



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### III MATCH:

1. A flow of electric charge, the amount of electric charge flowing past a specified circuit point per unit time	a) magneto
2. A device containing an electric cell or a series of electric cells storing energy that can be converted into electrical power	b) current
3. Equipment in a motor vehicle that provides electricity to start the engine and ignite the fuel and operate the lights and windshield wiper and heater and air conditioner and radio	c) cowl flaps
4. an artificial obstruction for checking or deflecting the flow of sounds, light, gases, etc	d) electrical system
5. A device inserted in the head of an internal-combustion engine cylinder that ignites the fuel mixture by means of an electric spark	e) spark plug
6. A device that produces alternating current for distribution to the spark plugs, used in the ignition systems of some internal-combustion engines	f) battery
7. An opening, as in a cylinder or valve face, for the passage of steam or fluid	g) baffle
8. the movable flaps located at the exit of the cowling that houses an air-cooled reciprocating engine.	h) port

1 - \_\_ 2 - \_\_ 3 - \_\_ 4 - \_\_ 5 - \_\_ 6 - \_\_ 7 - \_\_ 8 - \_\_

### IV CIRCLE THE RIGHT ANSWER

1. High engine temperatures can be \_\_\_\_\_ by increasing the airspeed and/or reducing the power.
- adjusted
  - decreased
  - set
  - Fixed

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2. Cowl flaps are hinged covers that fit over the opening \_\_\_\_\_ which the hot air is expelled.
  - a. into
  - b. in
  - c. out of
  - d. through
3. Conversely, high-speed descents provide excess air and can \_\_\_\_\_ cool the engine, subjecting it to abrupt temperature fluctuations.
  - a. sudden
  - b. surprise
  - c. shock
  - d. Seriously
4. Baffles route this air over fins attached to the engine cylinders, and other parts of the engine, where the air \_\_\_\_\_ the engine heat.
  - a. sucks
  - b. intakes
  - c. lets
  - d. absorbs
5. Expulsion of the hot air takes place through one or more openings in the lower, aft \_\_\_\_\_ of the engine cowling.
  - a. segment
  - b. portion
  - c. part
  - d. sequence
6. Most aircraft are \_\_\_\_\_ a cylinder-head temperature gauge which indicates a direct and immediate cylinder temperature change.
  - a. supplied with
  - b. provided with
  - c. secured with
  - d. equipped with
7. Air cooling is accomplished by air flowing into the engine \_\_\_\_\_ through openings in front of the engine cowling.
  - a. portion
  - b. compartment
  - c. part
  - d. box

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8. If the engine temperature is high, the cowl flaps can be opened to permit a greater \_\_\_\_\_ of air through the system, thereby decreasing the engine temperature.
- jet
  - wave
  - flow
  - stream
9. Under normal \_\_\_\_\_ conditions in aircraft not equipped with cowl flaps, the engine temperature can be controlled by changing the airspeed or the power output of the engine.
- working
  - doing
  - laboring
  - operating
10. Operating the engine at higher than its designed temperature can cause loss of power, \_\_\_\_\_, and detonation.
- huge oil intake
  - large oil spending
  - elaborate oil consumption
  - excessive oil consumption

### V TRUE or FALSE. IF IT'S FALSE MAKE A TRUE SENTENCE:

1. The "**V**" **engine** has a row of cylinders arranged in a circle around a crankcase located in the middle. The combination of cylinders may be either three, five, seven, or nine.
- \_\_\_\_\_
2. The pistons on an **oppositional piston engine** are lined up one behind the other along the length of the shaft that turns the propeller.
- \_\_\_\_\_
3. Today, internal combustion engines most commonly use a four-stroke cycle. The four strokes refer to intake, compression, combustion (power), and outtake strokes that occur during two crankshaft rotations per working cycle.
- \_\_\_\_\_
4. In an aircraft with a constant-speed propeller, carburetor icing is usually indicated by an increase in manifold pressure, but no reduction in rpm.
- \_\_\_\_\_
5. The auxiliary fuel pump provides fuel under pressure to the fuel/air control unit for engine starting and/or emergency use.
- \_\_\_\_\_