

Name:

### *Who Invented The Automobile?*

Many inventors contributed to the development of the automobile.

1. In an internal combustion engine (ice), what do “gases from those explosions” do? Describe the next 3 steps in the process.
  
  
  
  
  
  
  
  
  
  
2. What two things did Lenoir invent which made an (ice) more efficient?
  
  
  
  
  
  
  
  
  
  
3. How does a *four stroke engine* work?
  
  
  
  
  
  
  
  
  
  
4. The Germans Karl Benz and Gottlieb Daimler introduced the 3 wheel car (Benz) in 1885 and the 4 wheel car (Daimler) in 1886. How did the Frenchmen Pankhard and Levassor impact the development of the automobile?

5. Who took John Dunlop's *pneumatic* (filled with air) tire invention and adapted them for cars?

*A Driving Force for Progress*

6. Explain the 4 basic principles of Mass Production.
7. "In less than a year" how much had assemble time for a Model T dropped?  
How much did a Model T cost in 1908 versus 1915?
8. In 1914, what changes did Ford make for his employees?
9. What was Ford's "one rule for the industrialist"?

10. Why did some critics call the assembly line “dehumanizing”?

11. What were some of the “criteria” which an employee had to meet to make the \$5.00/day wage?

*Mass Production & the Automobile (1908) Henry Ford*

12. What job did Ford hold in 1899?

13. What year did he found Ford Motor Company?

14. What year did Ford begin producing the Model T? What was the car's nickname?

15. How many Model T's were made per day?

16. How many sold between 1908 and 1927?

17. What charitable organization was founded by Ford using his great wealth?

