

Automotive Technology 7th Edition
Chapter 11: Measuring, Math, and Charts
Short Answer Quiz

Name:

Date:

1. Explain the origin of the foot, yard, and mile in the English customary measuring system, and how they relate to King Henry I and Roman history.
2. What was the original temperature that Gabriel Fahrenheit set as the human body temperature and how did it change later?
3. Describe how the metric system used the physical world as a basis for its measurements, specifically referring to the meter's definition.
4. What process is involved in measuring the inside diameter of a cylinder bore using a telescopic gauge and a micrometer?
5. How is a dial bore gauge different from other measuring tools in terms of its utility, and how does it present its measurements in relation to a predetermined dimension?

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6. Describe the process and purpose of adding and subtracting decimals, especially in the context of measurements and their accuracy.

7. Define scientific notation and explain how it would be used to express both very large and very small decimal numbers.

8. Provide an explanation of how to convert fractions to decimal units, using the example of $5/8$.

9. In the context of gear ratios, differentiate between direct drive, gear reduction, and overdrive.

10. Based on the text, explain the mathematical formula for determining gear ratio when one gear turns another.