

# Automotive Technology 6<sup>th</sup> Edition

## Chapter 14 – Math, Charts, and Calculations

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Decimals, percentages, scientific notation, adding, and subtracting
  2. Fractions, multiplying, and dividing
  3. Gear ratios
  4. Graphs, charts, and diagrams
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#### **OBJECTIVES:**

1. Discuss mathematic principles relevant to service technicians and the use of decimals in representing percentages and fractions.
  2. Explain the concept of mathematical formulas and the steps to calculate the fuel economy of an automobile.
  3. Compare the different categories of gear ratios.
  4. Explain how to interpret graphs, charts, and diagrams.
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**RESOURCES:** (All resources may be found at <http://www.jameshalderman.com>) Internet access required to hyperlink.

1. **Task Sheet:** Math Problem Exercise
  2. Chapter PowerPoint
  3. Chapter Crossword Puzzle and Word Search
  4. Videos: [\(A0\) Automotive Fundamentals Videos](#)
  5. Animations: [\(A0\) Automotive Fundamentals Animations](#)
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#### **ACTIVITIES:**

1. **Task Sheet:** Have students complete Math Problem Exercise Task Sheet.
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#### **ASSIGNMENTS:**

1. Chapter crossword and word search puzzles.
  2. Complete end of chapter 10 question quiz.
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#### **CLASS DISCUSSION:**

1. Review and group discussion chapter [Frequently Asked Questions](#) and [Tech Tips](#) sections.
  2. Review and group discussion of the five (5) chapter [Review Questions](#).
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#### **NOTES AND EVALUATION:**

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