

Automotive Technology 7<sup>th</sup> Edition  
Chapter 9: Hand and Power Tools  
Short Answer Quiz

Name:

Date:

1. What is the primary function of a punch and how are its sizes measured?
2. Explain the difference in usage between a cold chisel and a hacksaw, highlighting the materials each is suitable for.
3. Describe the purpose and function of an "easy out" extractor and detail the steps on how it's used.
4. What are the two special tools mentioned for addressing damaged or rounded bolt heads or nuts, and how does each function?
5. Discuss the importance of using proper lubrication in relation to penetrating oil and elaborate on why it should not be used as a regular lubricating oil.

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6. Describe the purpose of the ball-peen on a ball-peen hammer and explain its typical applications in automotive service. What differentiates a ball-peen hammer from a claw hammer in terms of structure and function?

7. Explain the difference between an open-end wrench and a box-end wrench in terms of design, function, and typical applications. How does a combination wrench incorporate the features of both?

8. Differentiate between a clicker-type torque wrench and a dial-type torque wrench in terms of their mechanism and application. How does the beam-type torque wrench differ from these two in terms of drive sizes and units?

9. List the three designs of aviation tin snips and explain how their handles are color-coded for easy identification. What are the specific cutting directions associated with each color?

10. Highlight the safe use practices for files in a workshop setting. Explain the difference between a single-cut file and a double-cut file in terms of their tooth arrangement and potential applications.