

Fasteners Test

Part 1: Adhesives (Glues)

Circle the correct answer.

1. What is an adhesive?
A. A compound that bonds two pieces of material together
B. A simple machine known as a wedge.
C. A Helix
D. Deciduous
 2. What is the most commonly used wood glue today?
A. Polyvinylacetate (PVA) B. Yellow glue C. Carpenters glue D. All of them
 3. What are the two basic categories of glue?
A. Natural and synthetic C. Epoxy and synthetic
B. White glue and yellow glue D. Polyurethane
 4. Which of the following are examples of natural adhesives?
A. Tree sap B. Plant resins C. Egg whites D. All of them
 5. Which of the following are examples of synthetic adhesives?
A. Carpenters glue B. Hide glue C. Hoof glue D. All of them
- Extra Credit:* What is the name of the bull on the bottle of Elmer's glue?
- A. Ernie B. Elmer C. Eugene D. All of them

Part 2: Nails

Circle the correct answer.

6. What is a nail?
A. A simple machine known as a wedge. C. A natural adhesive
B. An inclined plane with a helix wrapped around it. D. None of them
7. Nails were among the first items to be produced from which of the following metals?
A. Steel B. Iron C. Copper D. Titanium
8. What material are nails made from today?
A. Steel B. Iron C. Copper D. Titanium

9. What famous early American manufactured nails at his home known as Monticello?
- A. George Washington B. Benjamin Franklin C. Thomas Jefferson D. None of them
10. What do we call nails that are cut from iron or steel sheets?
- A. Slit nails B. Hand wrought C. Sheet nails D. Cut nails

Extra Credit: What would early American settlers do to retrieve their nails from their homes as they move west?

- A. Burn their houses down
B. Pull the nails out; one by one
C. They didn't bother to retrieve them
D. Dismantle their house, and have professional retrievers pull the nails out.

Part 3: Screws

Circle the correct answer.

11. What ancient Greek calculated the value of pi, and applied the mathematical principle of the screw?
- A. Aristotle B. Aerosmith C. Archimedes D. Aristarchus
12. What is a screw?
- A. An inclined plane with a helix wrapped around it C. A natural adhesive
B. A simple machine known as a wedge D. None of them
13. What material were the oldest screws made from?
- A. Wood B. Fish bones C. Carbon fiber D. Titanium
14. What do we call it when a screwdriver pops out of the screw head due to the application of too much torque?
- A. Cam-out B. Tear-out C. Peel-out D. Frustrating
15. What is the most popular/common screw-drive type today?
- A. Robertson B. Phillips C. TORX D. Tri-Wing

Extra Credit: What creature produces a screw-shaped egg case that protects the young within by keeping it safely anchored in the place it was laid?

- A. Mountain goat B. Tree snake C. Sparrow D. Horn shark