

Auto and Shop

Subtest 7: Auto & Shop Information

Time: 11 minutes for 25 questions

Directions: This test is about automobiles, shop practices, and the use of tools. Pick the best answer for each question and then mark the corresponding space on your answer sheet.

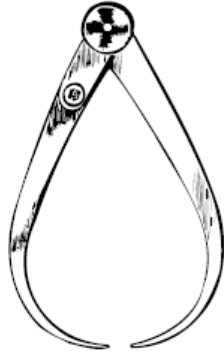
- Overheating the engine can cause all of the following problems EXCEPT
 - burned engine bearings.
 - enlarged pistons.
 - melted engine parts.
 - improved fuel efficiency.
- The device that converts an automobile's mechanical energy to electrical energy is called the
 - converter.
 - alternator.
 - battery.
 - brakes.
- A primary advantage of the electronic ignition system over conventional ignition systems is that
 - the electronic ignition system is less expensive to repair.
 - the electronic ignition system requires a lower voltage to provide a higher voltage for spark
 - the electronic ignition system allows for use of a lower octane fuel.
 - all of the above
- The primary purpose of piston rings is to
 - seal the combustion chamber and allow the pistons to move freely.
 - connect the piston to the crankshaft.
 - allow fuel to enter the piston cylinder.
 - provide lubrication to the piston cylinder.
- The crankshaft typically connects to a
 - flywheel.
 - fuel pump.
 - muffler.
 - battery.
- What component allows the left and right wheels to turn at different speeds when cornering?
 - differential
 - camshaft
 - valve rotator
 - battery
- If a car's ignition system, lights, and radio don't work, the part that's probably malfunctioned is the
 - cylinder block.
 - water pump.
 - carburetor.
 - battery.
- A good tool to cut intricate shapes in wood would be a
 - ripsaw.
 - hacksaw.
 - coping saw.
 - pocket knife.
- A two-stroke engine will normally be found on
 - small cars.
 - large diesel trucks.
 - trucks, vans, and some cars.
 - snowmobiles, chainsaws, and some motorcycles.
- A belt sander would best be used to
 - cut wood.
 - finish wood.
 - shape wood.
 - keep your pants up.

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11. A car equipped with limited-slip differential
- (A) can be readily put into all-wheel (four-wheel) drive.
 - (B) won't lock up when the brakes are applied steadily.
 - (C) transfers the most driving force to the wheel with the greatest amount of traction.
 - (D) is rated for off-road driving.
12. Big block engines generally have
- (A) more than 5.9 L of displacement.
 - (B) better gas mileage than small block engines.
 - (C) less than 6 L of displacement.
 - (D) air conditioning.
13. A good tool for spreading and/or shaping mortar would be a
- (A) cement shaper.
 - (B) hammer.
 - (C) trowel.
 - (D) broom.
14. Plumb-bobs are used to
- (A) clean pipes.
 - (B) check vertical reference.
 - (C) fix the toilet.
 - (D) carve stones.
15. Rebar is used to
- (A) measure the depth of concrete.
 - (B) reinforce concrete.
 - (C) stir concrete.
 - (D) smooth concrete.
16. Annular ring, clout, and spring head are types of
- (A) hammers.
 - (B) saws.
 - (C) nails.
 - (D) screwdrivers.
17. A rip saw cuts
- (A) against the grain of the wood.
 - (B) with the grain of the wood.
 - (C) most materials, including metal.
 - (D) only plastic.
18. A cam belt is also known as a
- (A) piston.
 - (B) timing belt.
 - (C) transmission belt.
 - (D) lug nut.
19. To check for horizontal trueness, the best tool to use is a
- (A) steel tape rule.
 - (B) plumb bob.
 - (C) level.
 - (D) sliding T-bevel.
20. A bucking bar is used to
- (A) pull nails.
 - (B) pry wood apart.
 - (C) form rivet bucktails.
 - (D) drive screws.
21. Washers that have teeth all around the circumference to prevent them from slipping are called
- (A) shake-proof washers.
 - (B) jaw washers.
 - (C) flat washers.
 - (D) split-lock washers.

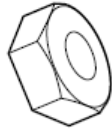
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22. The tool below measures



- (A) an inside curve.
- (B) an outside curve.
- (C) the depth of a hole.
- (D) the thickness of wire.

23. The object below is a type of



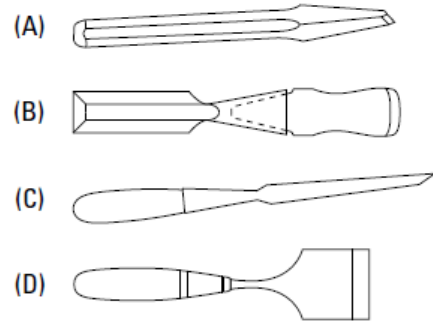
- (A) nut.
- (B) washer.
- (C) screw.
- (D) bolt.

24. The tool below is used to



- (A) finish concrete.
- (B) spread joint compound.
- (C) smooth wallpaper.
- (D) dress wood.

25. The chisel used to cut metal is



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Answers

Subtest 7: Auto & Shop Information Answers

The Auto & Shop Information subtest is fairly straightforward. You either know the information or you don't. Not knowing the info may not matter to you as long as the career you want doesn't require a subtest score in this area (check the Appendix to see whether the jobs you're interested in require a score in this subtest). But if you do need to do well on this subtest and you've missed more than five answers, review the material in Chapter 11.



Reviewing *Auto Repair For Dummies* by Deanna Sclar (Wiley) may also help you score better on this subtest. *Home Improvement All-in-One For Dummies* by Roy Barnhart, James Carey, Morris Carey, Gene Hamilton, Katie Hamilton, Donald R. Prestly, and Jeff Strong (Wiley) can help you get a better handle on basic tools and their uses. You may even want to take a class at a nearby community college or at least hang out at the garage and help some mechanics for a couple of weeks. See Chapter 15 for some more practice questions.

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|------|------|------|-------|-------|-------|-------|-------|-------|
| 1. D | 4. A | 7. D | 10. B | 13. C | 16. C | 19. C | 22. B | 25. A |
| 2. B | 5. A | 8. C | 11. C | 14. B | 17. B | 20. C | 23. A | |
| 3. B | 6. A | 9. D | 12. A | 15. B | 18. B | 21. A | 24. D | |