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Question: 589

image

- A. a pulley
- B. a siphon
- C. a gauge
- D. a spring

Answer: B

To use a siphon, you would first submerge the entire length of hose in tank 1 in order to completely fill it with water. You would then place one end of the hose in tank 1 and the other end in tank 2, as shown in the diagram. Since the end of the hose in tank 2 is lower than the end in tank 1, the extra weight of the water in the right side of the hose will cause the water to flow into tank 2.

Question: 590

Which of the following mechanical devices is used to open a common soft drink can?

- A. a winch
- B. a lever
- C. a wrench
- D. a piston

Answer: B

The little tab you use to pry open the can is a lever. You lift up one end of the lever, which rotates around a pivot point and forces the other end of the lever downward, so that the can pops open.

Question: 591

Which hand tool listed below is used to tighten a nut and bolt?

- A. a crescent wrench
- B. a screwdriver
- C. an awl
- D. a hammer

Answer: A

A crescent wrench is used to tighten bolts. A screwdriver is used to tighten screws, an awl to start holes in wood to accommodate nails or screws, and a hammer to drive nails.

Question: 592
image

- A. temporarily hold two boards together.
- B. hold up a car to repair a flat tire.
- C. secure a nut as the bolt is tightened.
- D. make a straight cut on a board.

Answer: A

The C-clamp would be placed around the two boards and tightened by turning the screw with the handle.

Question: 593
The primary function of a wire mesh screen is to

- A. transport water on a construction project.
- B. aid in reading a directional compass.
- C. separate large particles from smaller ones.
- D. lift heavy loads in a warehouse.

Answer: C

Besides being used on windows and doors— where they keep large particles such as flies out of your living room—screens are typically used in industrial applications to sift granular materials such as rock, sand, and dirt in order to separate large pieces from small pieces.

Question: 594
A crane is primarily used to perform which of the following functions?

- A. pushing

- B. drilling
- C. welding
- D. lifting

Answer: D

A crane is used to raise and lower large items that are too heavy or awkward to lift by hand.

Question: 595

Which of the following statements is true concerning the differences between an electric motor and a gas-powered engine?

- A. There are no differences, the devices are essentially the same.
- B. An electric motor requires an external power source other than itself to operate.
- C. Gas-powered engines are safer to use in a confined space or area.
- D. Electric motors tend to produce more noise than gas-powered engines.

Answer: B

An electric motor requires an external power source to operate, whereas an engine consumes fuel and powers itself, usually with an internal combustion engine. Gas-powered engines should be used with caution in confined spaces because they will produce harmful emissions, whereas electric motors typically do not. Electric motors and electrically powered tools tend to be quieter than similar gas-powered tools.

Question: 596

image

- A. position A
- B. position B
- C. position C
- D. position D

Answer: C

Figure 3 shows the attachment of the tie rod to the crankshaft at the bottom of the crankshaft. Another 90-degree counterclockwise rotation would place the attachment point on the right side of the crankshaft at position C.

Question: 597

A bicycle wheel has a diameter of 1.9 feet and a circumference of 6 feet. A girl rides this bicycle for two revolutions of this wheel. How far down the driveway does she travel?

- A. 20 feet
- B. 12 feet
- C. 4 feet
- D. 2 feet

Answer: B

The circumference is the distance around the outer edge of the wheel. Two revolutions of a wheel 6 feet in circumference would result in a distance traveled of 12 feet.

Question: 598

The primary purpose of a pump is to

- A. lift heavy equipment.
- B. move fluids from one point to another.
- C. reduce vibration of internal combustion engines.
- D. regulate the speed of an electric motor.

Answer: B

A pump is a rotating piece of machinery normally driven by an electric motor. Fluid is pulled into the front of the pump, accelerated through the pump, and discharged through the back of the pump. Pumps are used to move fluids such as water, gasoline, and waste water, as well as thick industrial slurries such as fertilizer and mine tailings.

Question: 599

image

- A. valves 2, 4, and 6
- B. valves 1, 2, and 3
- C. valves 1, 2, and 4
- D. valves 1, 2, and 5

Answer: D

Carefully follow the flow diagram to verify that you must open valves 1, 2, and 5. If you opened valves 4 and 6, water would flow to point C as well as to point D.

Question: 600

Which of the following is an electrical, as opposed to a mechanical, device?

- A. a wrench
- B. a clamp
- C. a hydraulic jack
- D. a battery

Answer: D

A battery is an electrical device. The other items listed are common mechanical devices.

Question: 601

Newton's First Law of physics says, "A body (such as a car) that is in motion along a straight line will remain in motion, at the same speed, along the same straight line, unless acted upon by an outside force." A car is traveling down a straight, flat road at 30 miles per hour. The operation of all but one of the items listed below can help demonstrate Newton's First Law. Which item cannot be used to demonstrate this law?

- A. the brakes
- B. the gas pedal
- C. the steering wheel
- D. the radiator

Answer: D

Newton's First Law says that a vehicle will move at the same speed unless an outside force is applied. Both the brakes and the gas pedal could be used to apply such a force. Newton's First Law also says that the vehicle will travel along the same straight line unless an outside force—the action of the steering wheel, for instance—is applied. The radiator does not affect the speed or direction of the car's motion.

Question: 602

image

- A. 10 psi
- B. 20 psi
- C. 25 psi

D. 30 psi

Answer: D

The gauge indicates that any pressure greater than 20 psi is in the danger zone.

Question: 603

You are cutting 18" square pieces from a four- foot by eight-foot sheet of plywood. How many pieces can be cut from a single sheet of plywood?

A. 15

B. 18

C. 10

D. 20

Answer: C

Ten full pieces can be cut from a single sheet of plywood. The full sheet is 4' × 8'; 48" × 96". You can cut two full pieces across the width; 2 pieces × 18" wide = 36", leaving 12" remaining. You can cut five full pieces along the 8' length of the plywood; 5 pieces × 18" long = 90", leaving 6" remaining.

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