

SCIENCE

Directions: This Science subtest will gauge your proficiency in basic scientific concepts you learned in high school. Choose the letter that corresponds to your answer.

1. Boyle's law states that *"If the temperature remains constant, the volume of a gas varies inversely as the pressure."* The volume of the gas is 204 mL at 840 mm pressure. Calculate the volume of the same gas at 765 mm if the temperature is held constant.

- A. 112 mL
- B. 224 mL
- C. 288 mL
- D. 336 mL

2. A student holds a hand mirror to observe the back of her head while standing in front of and looking into a wall mirror. If she is standing 4 feet in front of the wall-mirror and she holds the hand-mirror 1 foot behind her head, she will see the back of her head how far behind the wall-mirror?

- A. 6 feet
- B. 5 feet
- C. 4 feet
- D. 3 feet

3. The Law of Superposition states that in undisturbed strata of sedimentary rock, the oldest rock layer is at the bottom, the youngest at the top. If geologists can determine which way was originally "up" in a stack of layers, they can put those strata in the correct historical order. Rarely, after a sequence of layers has been deposited and compressed to form rock, it may be literally overturned by the thrusting of the Earth's crust as continental plates collide. In rare cases like this, how can the original sequence of the rocks be determined?

- A. Collect samples in near-by undisrupted areas.
- B. They cannot be determined.
- C. Carbon-date the fossils that are formed within the sedimentary rock layers.
- D. They are totally in the reverse order of oldest to youngest.

Answers Only Png Exam Science Grade 2013

Ron Joyner



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