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1 Johannes Kepler (1571-1630) was a great astronomer. It is surprising to learn that his hands were so crippled that he did not have fine dexterity with instruments, that his eyes were so weak that he could not make fine observations, and that his health was so poor that he could not bear long exposure to night air. He made many discoveries in astronomy despite his

- A age. B theories. C limitations. D compensations.

2 A certain amount of heat is created by friction. The temperature of a substance increases when the molecules making up the substance move at greater speeds. Rubbing an object causes the molecules of that object to move faster. If you drive a nail deep into a board and then pull the nail out quickly, the nail will be

- A bent. B warm. C cool. D broken.

3 Leaves of plants require light to form the green chlorophyll necessary for food-making and for their characteristic hue. If parts of a leaf are covered on both sides for a period of three days, the covered spots will be much lighter than the uncovered spots at the end of that period. The faded patches result from the lack of

- A light. B rainfall. C fresh air. D covering.

4 A physician, while on a polar expedition, had to make a few extractions of teeth and insert a few temporary fillings. Some people believe that dental fillings drop out in cold weather. This doctor does not think that can happen even in the coldest weather, because inhaled cold air is immediately warmed, and the temperature of the teeth does not fall much. The doctor felt that most of the dental problems were due to failure to have complete dental examinations before leaving home and not to

- A the intense cold. C bad habits.
B dental cavities. D an inadequate diet.

5 In a recent year three athletes in one area died from heat exhaustion and heat stroke. Schools in that area now have installed weather instruments that have been tested by the military. When the readings on the instruments indicate that it is too hot or too humid, the coaches

- A lose every game. C shorten the practice.
B win fewer games. D are lucky to win at all.

