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https://www.100test.com/kao_ti2020/124/2021_2022_GRE_E7_BD_91_E7_BB_9C_E8_c86_124085.htm 4. Questions 1-6

Petworld has exactly fourteen animals (three gerbils, three hamsters, three lizards, five snakes) that are kept in four separate cages (W, X, Y, Z) according to the following conditions: Each cage contains exactly two, four, or six animals. Any cage containing a gerbil also contains at least one hamster. any cage containing a hamster also contains at least one gerbil. Any cage containing a lizard also contains at least one snake. any cage containing a snake also contains at least one lizard. Neither cage Y nor cage Z contains a gerbil. Neither cage W nor cage X contains a lizard.

(1). Which one of the following could be a complete and accurate list of the animals kept in cages W and Y?

(A) W: one gerbil and one hamster. Y: two lizards and two snakes
(B) W: one gerbil and two hamsters. Y: one lizard and three snakes
(C) W: two gerbils and two hamsters. Y: one lizard and four snakes
(D) W: two gerbils and two hamsters. Y: three lizards and one snake
(E) W: two gerbils and two lizards. Y: two hamsters and two snakes

(2). If there are exactly two hamsters in cage W and the number of gerbils in cage X is equal to the number of snakes in cage Y, then the number of snakes in cage Z must be exactly

(A) one (B) two
(C) three (D) four (E) five

(3). If cage Z contains exactly twice as many lizards as cage Y, which one of the following can be true?

(A) cage Y contains exactly two lizards.
(B) Cage Y contains exactly two snakes.
(C) Cage Y contains exactly four animals.
(D) Cage Z

contains exactly three snakes. (E) Cage Z contains exactly two animals. (4). If the number of animals in cage W is equal to the number of animals in cage Z, then which one of the following can be true? (A) Cage W contains exactly six animals. (B) Cage X contains exactly six animals. (C) Cage Y contains exactly one snake. (D) Cage Y contains exactly three snakes. (E) Cage Z contains exactly four snakes. (5). If cage W contains six animals, which one of the following must be true? (A) Cage W contains two gerbils. (B) Cage X contains four animals. (C) Cage Z contains two snakes. (D) The number of snakes in cage Y is equal to the number of lizards in cage Y. (E) The number of snakes in cage Z is equal to the number of lizards in cage Z. (6). At most, how many snakes can occupy cage Y at any one time? (A) one (B) two (C) three (D) four (E) five

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