

Linear Arrangements and DR - CAT 15

Amit, Bharat, Chandan, Dinesh, Eeshwar and Ferguson are cousins. None of them are the same age, but all of them have birthdays on the same date. The youngest of them is 17 year old and Eeshwar, who is the eldest, is 22 yr old. Ferguson is somewhere between Bharat and Dinesh in age. Amit is elder to Bharat and Chandan is older than Dinesh.

1. Which of the following is not possible ?
 - a. Dinesh is 20 years old
 - b. Ferguson is 18 yr old
 - c. Ferguson is 19 year old
 - d. Ferguson is 20 year old

2. If Bharat is 17 year old, then which of the following could be the ages of Dinesh and Chandan, respectively ?
 - a. 18 and 19
 - b. 19 and 21
 - c. 18 and 20
 - d. 18 and 21

3. If two of the cousins are between Chandan and Ferguson in age, then which of the following must be true ?
 - a. Amit is between ferguson and Dinesh in Age
 - b. Bharat is 17 year old
 - c. Bharat is younger than Dinesh
 - d. Ferguson is 18 yr old

4. If Amit is one year older to Chandan, then the number of logically possible orders of all six cousins by increasing age is
 - a. 2
 - b. 3
 - c. 4
 - d. 5