

**QUESTION:** The average age of a team of 15 employees is 36. The youngest of them is 20 years old and the eldest is 56 years old. Two of them with average age 28 leave the team. If one of the two comes back on the condition that he will be made the team-leader, then which of the following can possibly be the average age of the new team so formed.

**OPTIONS:**

- a) 35
- b) 36
- c) 38
- d) 39

**SOLUTION:** Age of total employee =  $36 \times 15$   
= 540

Average two employee who left the term = 28

Total age of the 2 employee = 56

Then total age of left employee =  $540 - 56 = 484$

Again one of the employee joints the team.

The age of the team leader will lies between 20 and 56.

So, average of the new team will lies between  $\frac{484 + 21}{14} \leq x \leq \frac{484 + 55}{14}$

$x = 38$  is the only possible average age of the new team so formed.