Averages

100,200,300,400...900

when difference between the terms is constant middle term is the average.

$$avg = rac{first + last}{2}$$

when they have given an average and given some numbers and a X

- find how far every number is away from the Averages.
- add it and the x is going to be that many times bigger than average.

when there is miscalculation

 find how much they are off by and divide by the number they have given then subtract or add it depending upon if the miscalculation was more or less respesctive.

when average of age y is given, say x years ago

their current average is y+x.

when they have given the average and someone leaves.

- tthe average either reduces or increases
 - if it reduces then person who left had more than the average.
 - if average increases then person who left had less than the average
- their value is going to be

value = rest * amountOfAverageChange

LAST RESORT IS TO CHECK OUT OPTION AND TRY TO SIMLUATE

example

18. There is a cricket team of 11 members. The captain was 26 years old and the wicket keeper 3 years older. When they both were removed, average of the remaining members reduced by 1 year. Find the initial average of the team.

- a) 23 years b) 24 years
- c) 25 years d) 24.5 years

isme check out option and simulate the things they saying