SSC CHSL Average Quick Maths Formulas

1. Average = (Total of data) / (No. of data)

2. Age of New Entrant = New Average + No. of Old Members * Increase

3. Weight of New Person = Weight of Removed Person + No. Of Persons * Increase In Average

4. Number of Passed Candidates = Total Candidates * (Total Average – Failed Average) / (Passed Average – Failed Average)

5. Number of Failed Candidates = Total Candidates * (Passed Average – Total Average) / (Passed Average – Failed Average)

6. Age of New Person = Age of Removed Person – No. of Persons * Decrease in Average Age

7. Average after x innings = Total Score – Increment in Average * y innings

8. If a person travels a distance at a speed of x km/hr and the same distance at a speed of y km/hr, then the average speed during the whole journey is given by – **2xy / (x+y)** km/hr.

9. If half of the journey is travelled at a speed of x km/hr and the next half at a speed of y km/hr, then average speed during the whole journey is **2xy / (x+y)** km/hr.

10. If a man goes to a certain place at a speed of x km/hr and returns to the original place at a speed of y km/hr, then the average speed during up and down journey is **2xy / (x+y)** km/hr.

11. If a person travels 3 equal distances at a speed of x km/hr, y km/hr and z km/hr respectively, then the average speed during the whole journey is **3xyz / (xy+yz+zx)** km/hr.

12. If decrease in average = x
Increase in expenditure = y
Increase in no. of students = z
And number of students (originally) = N, then
The original expenditure = N * [x*(N+z) + y] / z]