1) Vijay expenditure for first 3 days is Rs 100, Rs 75 Rs 65, what is 4th expenditure as his 4 days average is 90

$$\text{Avg} = \frac{310+?}{4} = 90 = \frac{310+?}{4} \quad ? = 50$$

2) what will be average price of all goods bought if Ajay buy 30 erasers for 3 each, 35 chocolates for 10 each, 25 clip for 4 each

$$T = 30+35+25 = 90 \text{ goods}$$

$$\frac{3(30)+35(10)+25(4)}{90} = \frac{540}{90} = 6$$

3) out of 20 cycles sold by Ajay, average cost of 12 cycles is Rs 18000. In total he earned Rs 300000. what was average of 8 cycles

$$S = AV \times T$$

	18000×12
12 cycles = 216000	216000
20 cycles 300000	
8 cycles = 84000	

$$\text{Avg} = \frac{S}{T} = \frac{84000}{8} = 10500$$

4) without considering the salary of the boss the average salary reduces by 1000. what will be salary of boss if avg salary of 11 employee & boss is Rs 1000

Avg = S/7   S = Avg×7

S = 18000×12   S = 216000

Av_{11} = 17000

S = 17000×11 = 187000

216000 − 187000 = 29,0007 loss salary

5) Average age of 5 people is 42yrs. Another group has 8 people who have average of 81years. when both groups are mixed whats average of all people

A = S/7 = Total = 5+8 = 13 Av_5 = S/7 = S_5 = 42×5 = 210

Av_8 = S_8/7 = S_8 = 648 year

Total = (210years + 648)/13 = 66years

6) 5 boxes have some average weight. when one box which weighs 89 kg is replaced by another box, the average weight increases by 5kg. how much the new box weighs

W W W ⟶ [ ] ⟶ W+5 / W+5 → W+5

The new box should compensate all value

89+5+5+5+5 = 103 kgs
2

7) How... age... avg

Av

15

8)

9)

7) How old will Ravi be if ratio of his age and one of his twin grandsons 11:2 and avg age and of both grandsons is 50.

$Av = \frac{S}{7} = 50 = \frac{S_2}{3} = 150$ yrs R:G = 11:2 11K:2K

15K = 150 yrs : K = 10 yrs = K = 110 years

8) Had Ajay scored 18 runs more in his 3rd innings and 4 runs more in his 7th innings, his average would have become 66 runs. But it is 64 runs. How many innings did he play

18 + 4 runs = 22

$\frac{2+2+\dots+2}{64} \longrightarrow 66$

$N \times 2 = 2N$ - Compensation

$2N = 22$

$N = 11$ innings

9) In a group of people, the oldest and younger have an age difference of 100 years. If these two are left out of counting, then average age of remaining 40 people is 28. the average age of entire group being 30. how old is elder?

$40 + Y + O = 42$

$30 = \frac{S_{42}}{42} = S_{41} = 1260$

$Y + O + 40$

$N + 100 + N + 1120 = 1260$

$28 = \frac{S_{40}}{40}$ $S_{40} = 1120$

$2N = 140$ $N = 70$ yrs

$100 + N = 170$ old

$2N = 1260 - 1120 = 140$

10) A batsman played 11 innings and has certain average. This average increases by 1 runs when his innings of 32 runs, 33 runs, 34 runs are replaced by 3 other innings. Find 3 innings are

$2 \times 11 = 22$

$3N = 32 + 33 + 34 + 22$

$3N = 121$

$Avg = \frac{N}{3}$

Avg = 40 1/3

Chain rule

1) 40 boys Paint a house in 96 days by working 9 hours per day. How many hours per day 48 boys need to work so they can Paint the house in 45 days

$40B \times 96D \times 9 hours \times 1 = 48B \times 45D \times ? \times 1$