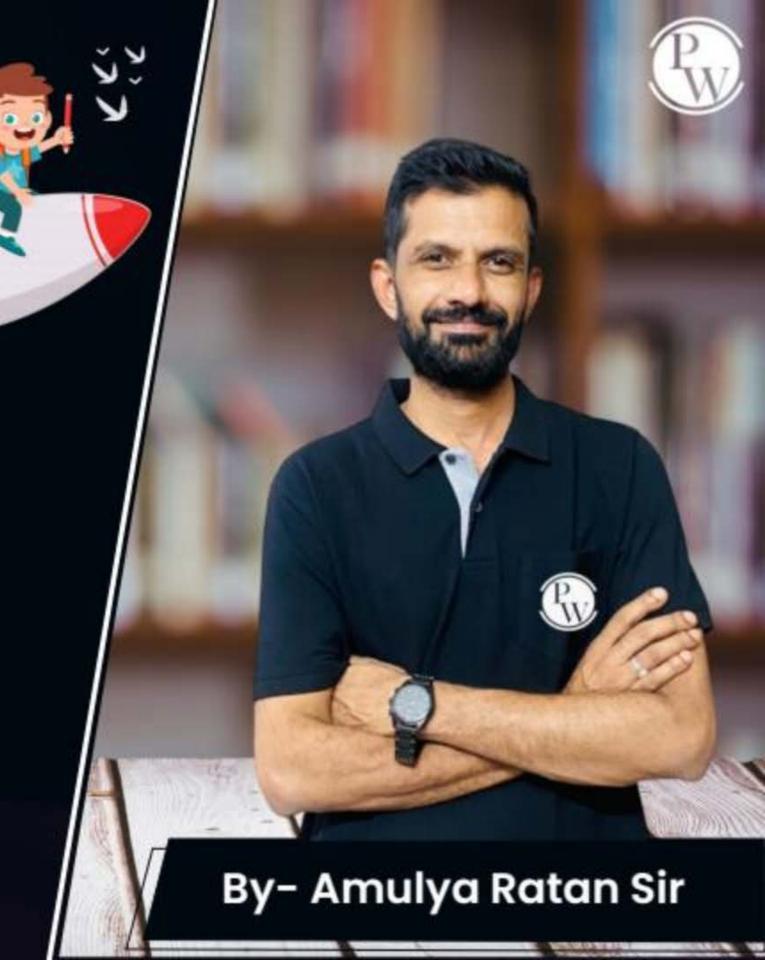
GATE ALL BRANCHES



QUANTITATIVE APTITUDE



Lecture No.- 04

Recap of Previous Lecture











Topic

Averages W

Topics to be Covered

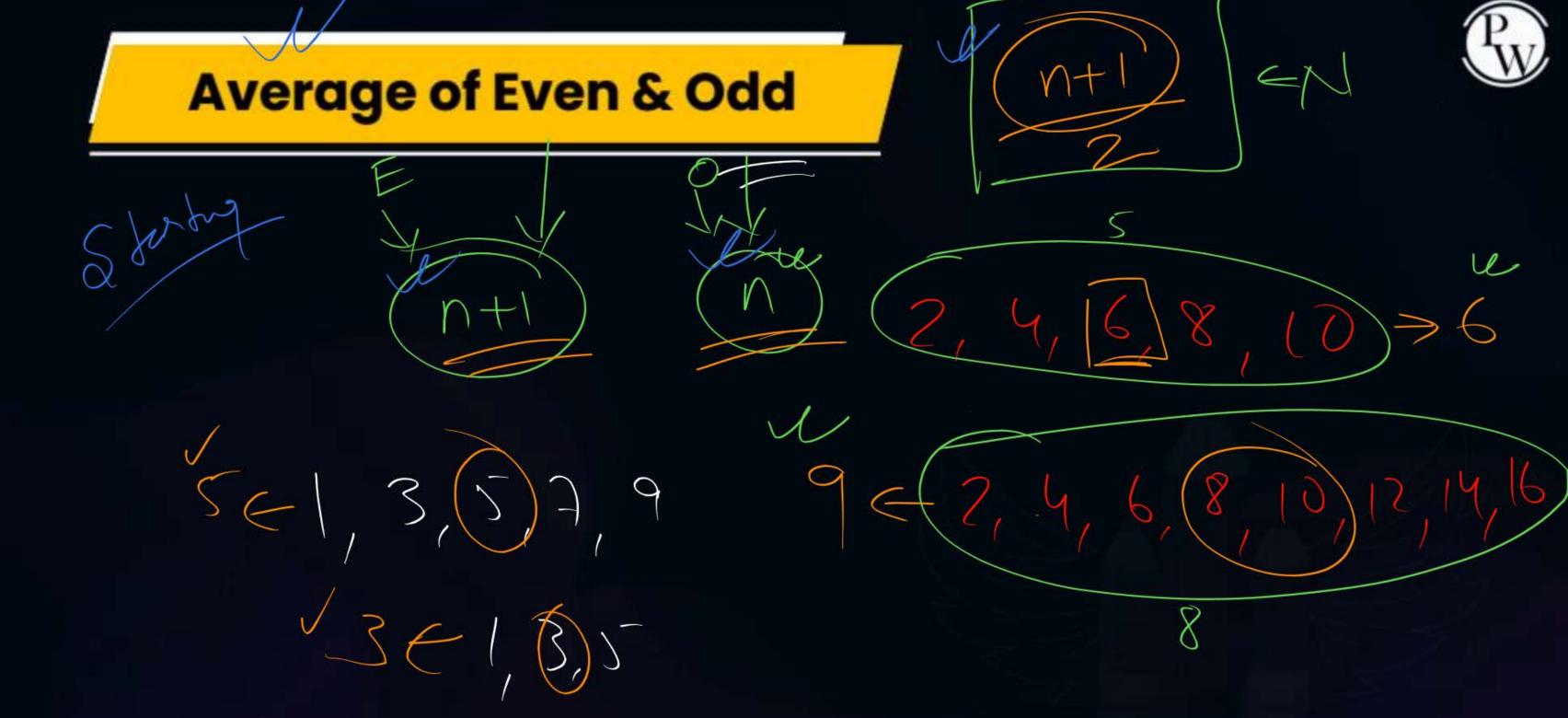












Sum of Even & Odd



$$\frac{1}{N+1} \times N = N(N+1) \rightarrow Sun of Even no$$

$$N \times N = N^2 \rightarrow Sun of odd no.$$



#Q. What is the average of first five multiples of 12?





#Q. A class with 20 students has the average age as 14 years. When the teacher is included in the group, the average becomes 16 years. What would be the

age of that teacher?

A

1442=

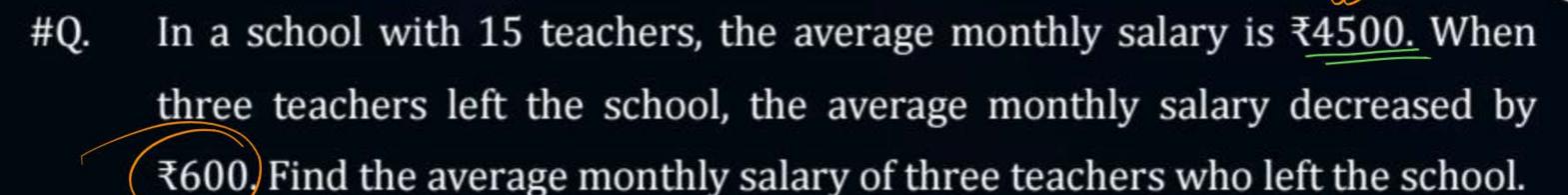
A = Sun No

AxNo. = Sum

14x 20 = 280

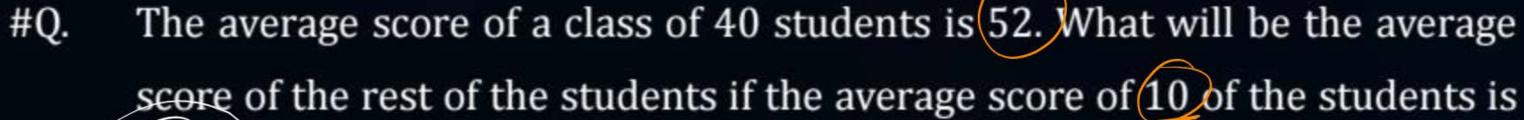
- Pw
- #Q. A team of 10 employees has the average age as 20 years. If team leader is excluded from the group the average of remaining 9 employees decreases by two months. Find the age of the team leader.

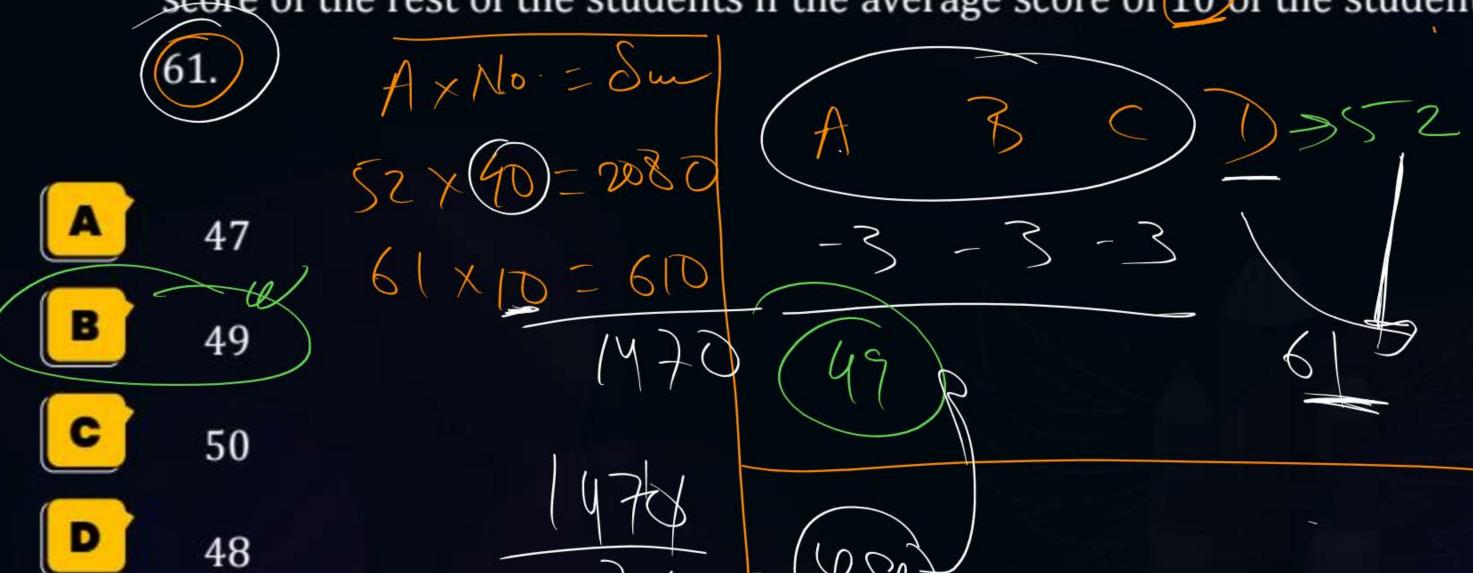
 $\frac{119 \times 3}{82} \quad A \times No. = 5 \text{ m}$ $\frac{20 \times 10}{2000} = 200$ $= 357 \quad 19 \times 9 = 178.5 \text{ m}$ $\frac{119 \times 3}{2000} \times 9 = 178.5 \text{ m}$



AxNo = Sum 4500 × 15 - 67500 3900 x 12 = 46800

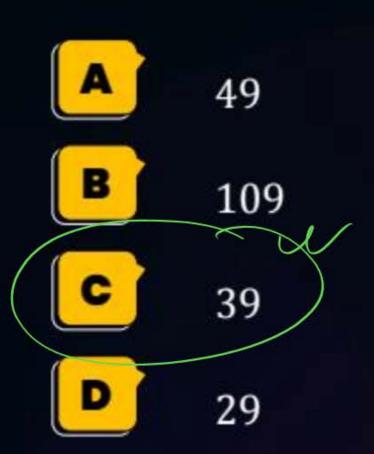
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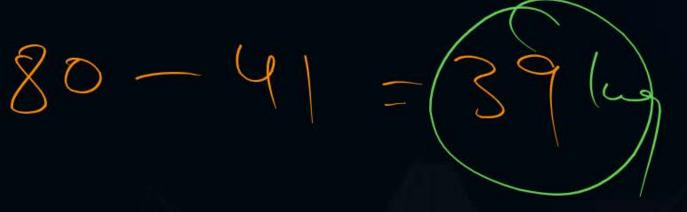






#Q. The average weight of a school of 40 teachers is 80 kg. If, however, the weight of the principle be included, the average decreases by 1 kg. What is the weight of the principal?







#Q. The average age of Abhijeet and Daya is 20 years. Their average age 5 years hence will be

20+5=28

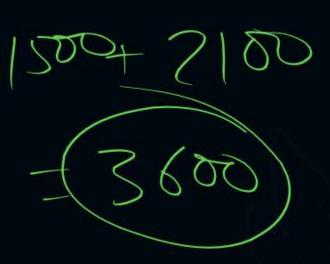
A	20
B	30
C	25
D	22

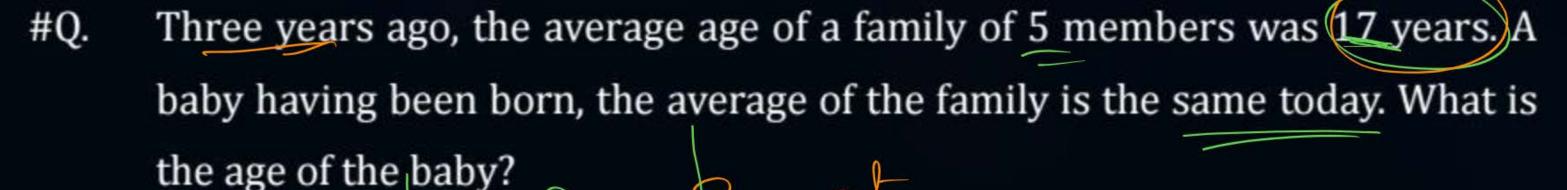




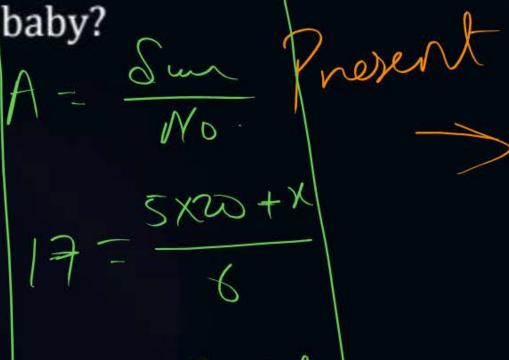
#Q. The average monthly salary of 20 employees is ₹1500. If the manager's salary is added the average becomes ₹1600. The manager's salary is

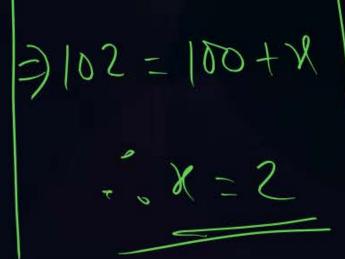


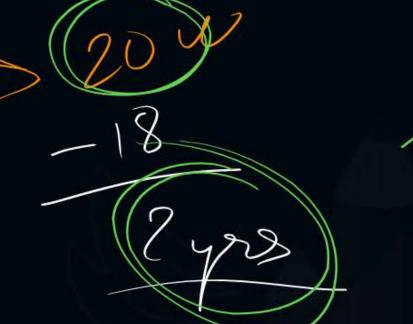




- A 6 months
- 9 monthjs
- 1 year
- 2 years









#Q. 12 years ago, the average age of a husband and his wife was 20yrs. The average age is same today, they having two children. What is the present age of the youngest child if children differ in age by 2yrs?

A 8

B 6

C 7

D 9



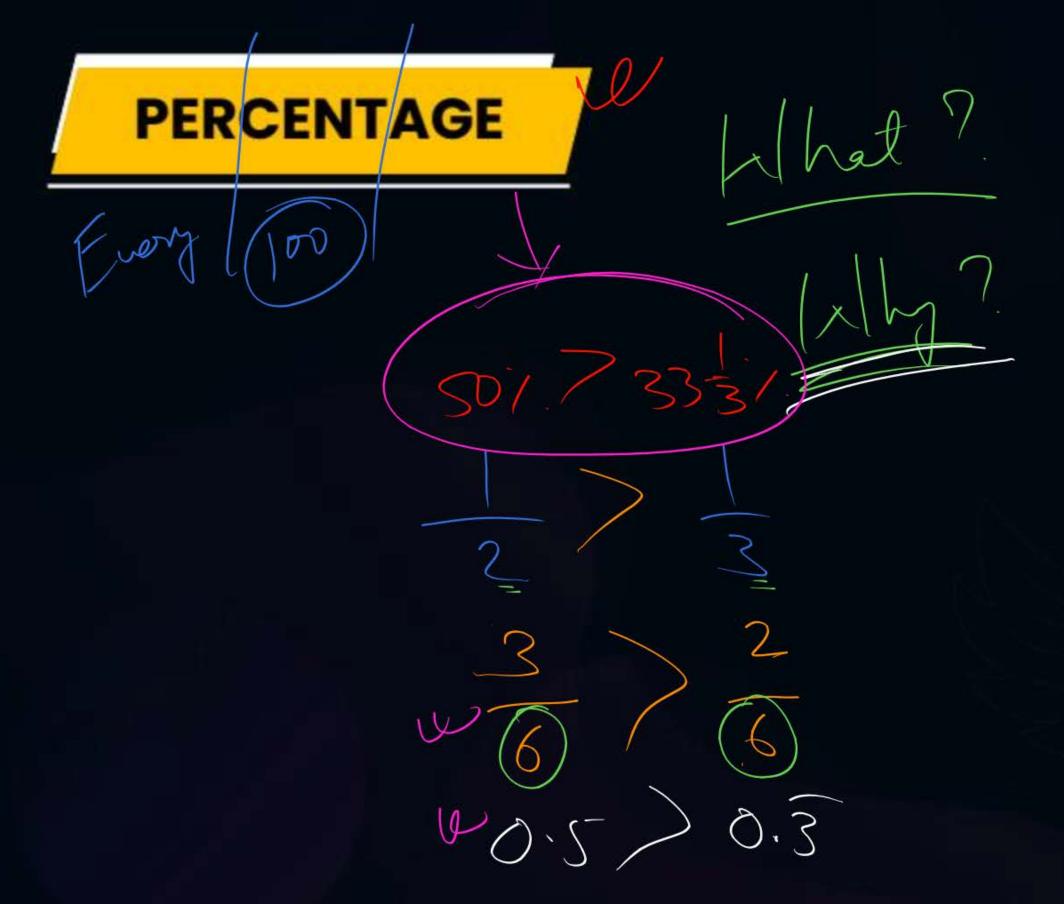
#Q. The average of 5 consecutive integers starting with x is y. What is the average of 6 consecutive numbers starting with (x+2)? $(x + y)^{n}$

$$A$$
 $y+3$

$$\frac{2y+9}{2}$$

$$y+2$$

$$\frac{2y+5}{2}$$

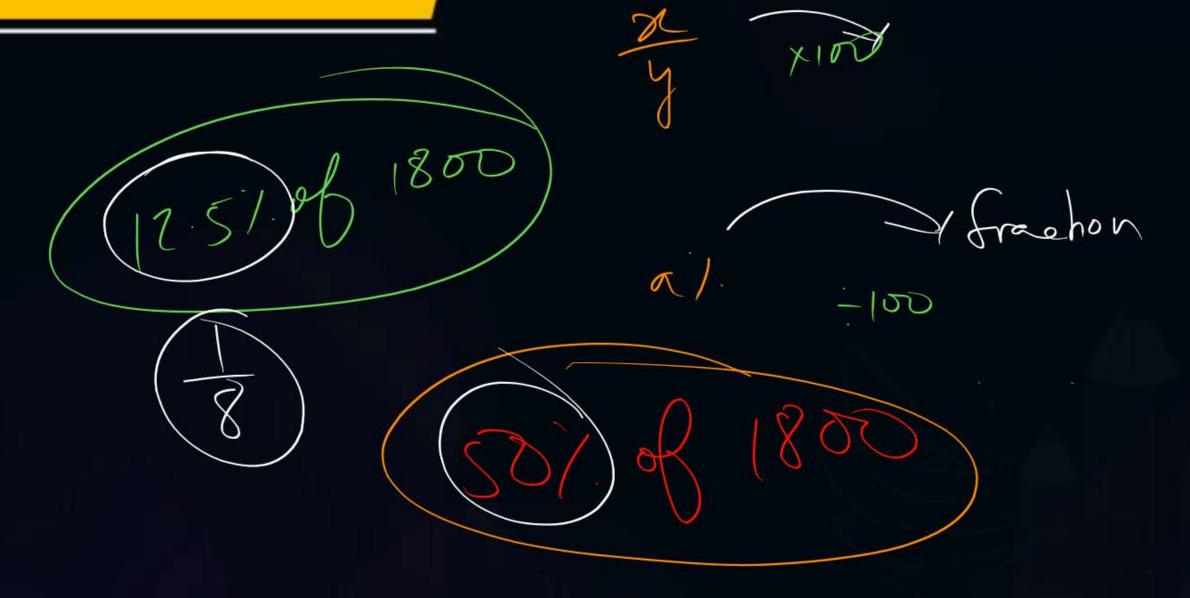




712 7

PERCENTAGE





PERCENTAGE



$$65/.$$
 $65/.$
 $65/.$
 $663/.$
 $3-0.6$
 $70/.$

PERCENTAGE





(10/11 + 10/11 + 10/11) 50/11 + 50/11 = 75/11

33-11/

50/1+20/1=60/1/

50/1 + 50/1 = 25/1



2 mins Summary



Topics

Averages & Percentages



THANK - YOU