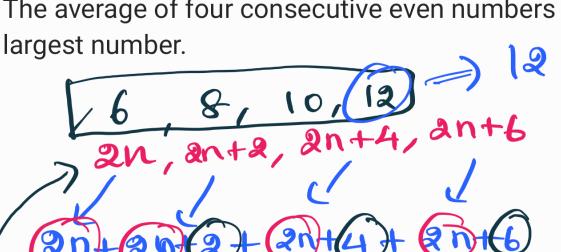
## Average

- $\Rightarrow$  Ang of first n natural nos =  $\frac{h+1}{2}$
- =) Aug of first h even nos = (n+1)
- -) Ary of first n odd nos = h
- a Ang of sum of squares of first = (n+1) (2n+1)

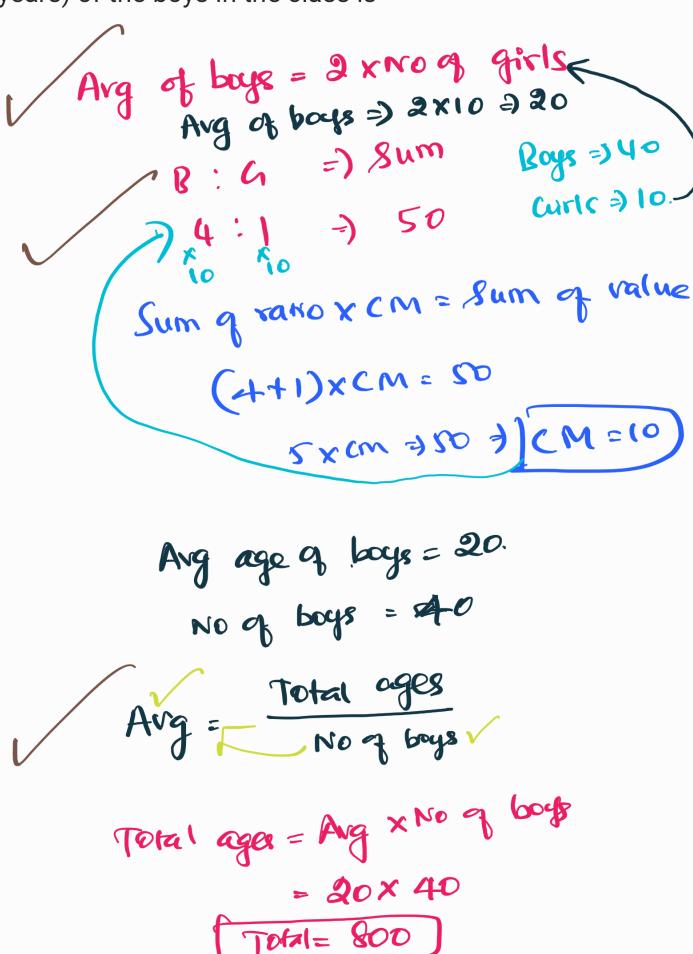
  n natural now
- Aveg 4 cubes of first n natural no:

The average of four consecutive even numbers is 9. Find the



$$\frac{6}{2}, \frac{8}{4}, \frac{10}{9}, \frac{12}{15}$$

The average age of boys in the class is twice the number of girls in the class. The ratio of boys and girls in the class of 50 is 4:1. The total of the ages (in years) of the boys in the class is



The average height of 8 students is 152 cm. Two more students of heights 144 cm and 155 cm join the group. What is the new average height?

Avg = 
$$\frac{\text{Sum q heights}}{\text{No q Students}}$$

Sum =  $\frac{\text{Avg} \times \text{No q Stu}}{\text{Sum}} = \frac{152 \times 8}{\text{Sum}} = \frac{1216}{\text{Sum}} = \frac{1216}{\text{Sum}} = \frac{1216}{\text{Sum}} = \frac{1216}{\text{Sum}} = \frac{1216}{\text{Sum}} = \frac{1215}{\text{Sum}} = \frac{1515}{\text{Sum}} = \frac{1515}{\text{$ 

A boy found that the average of 20 numbers is 35 when he writes a number '61' instead of '16'. The correct average of 20 numbers is

Arg = 
$$\frac{\text{Sum } q \text{ 20 nos}}{\text{20}}$$

Sum =  $\frac{\text{Sum } q \text{ 20 nos}}{\text{20}}$ 

Sum =  $\frac{\text{Sum } q \text{ 20 nos}}{\text{20}}$ 

Sum =  $\frac{\text{Sum } q \text{ 20 nos}}{\text{20 nos}}$ 

Correct =  $\frac{\text{Sum } q \text{ 20 nos}}{\text{20 nos}}$ 

Arg =  $\frac{\text{Sum } q \text{ 20 nos}}{\text{20 nos}}$ 

Arg =  $\frac{\text{Sum } q \text{ 20 nos}}{\text{20 nos}}$ 

=  $\frac{\text{Sum } q \text{ 20 nos}}{\text{20 nos}}$ 
 $\frac{\text{32.75}}{\text{30 nos}}$ 

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