Averages

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Average salary of total employee 80007, The overeige salary of 7 technicians is \$ 12000 and the average salary of rest is \$ 6000 total no. of employees?

 $8000 \times 2 = 12000 \times 7 + 6000 \times (2-7)$

Q. If any of 10 papers is 80 morks, If lowest and hieghest is neglected it is 81 marks if highest is g2 what is lowest?

- total marks = 80x10 = 800 - total marks = 81x8 = 648 without highest

Highest + lowest = 800-648

:. [10 west = 60]

Avg of class X, Y and Z are 83.76 and 85, The avg of X and Y is 79 and avg of Y and Z is 81 what is avg of X XZ together?

X = 83A, Y = 76B, Z = 85C

 $\frac{XA+YB=79}{A+B}$

 $\frac{YB+ZC=8}{B+C}=8$ '. 4C=5B

Q. Aug of 17 no. is 10.9, If the aug of first nine no. is 10.5 and last nine is 11.4 middle no is - $(10.5\times9)+(11.4\times9)=197.2$

middle no. 1s = 197.2 - (17x10.9)

middle no. is = 11.8

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Q.	Avg of 12 innings, In the 13th Innings he scare of 96 runs and therefore increase average by a runs what is avg. of 13 innings?
->	To increase any by 5 runs we have to add 5 runs to all 12 innings and remaining of 96 runs is the any element 13th. 5x12 = 60 96-60 = 36 Average of 13th innings is 36 runs
Q.	In 17th inning batsman scores 85 runs increase average by 3 runs what is average offer 17th inning? to increase any by 3 runs we required to increase runs of every inning of last 16 inning by 3 hence we need 16x3=48 run Avy after 17th imming = 85-48 = 37 runs.
	Avg weight of 8 sailors increase by 1 kg if person weighing 56 kg replaced with new sailor who is weight of new sailor? To increase weight avg of by 1 kg 8x1 kg 8 kg need to add hence replaced sailor (56+8) kg
	Avg. age of P,Q,R and S five years ago 45, and property age of P,Q,R,S and T is 49 present age of Present age of Present age of P,Q,R,S (avg) = 4x45 + 4x5 = 200 Present age of P,Q,R,S&T(avg) = 49x5 = 245 Present age of T = 45 years

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Q.	The avg of 8 people is increased by 2 years when two of them of 24 years and 20 years replaced by two womens?
>	To increase and by a years => 8x2 = 16 years required by replace of two or 24 820 years we need to compansate this 16 years hence [Age of womens = 3 oyears]
Q.	marks of 120 boys ang is 35. If any of passed boys are 39 and any of failed is 15 how many people passed?
	then 39xx+15xy = 35 x+Y
	$\frac{x+x}{ x =100}$
——————————————————————————————————————	Avg temp of Tue to FRI is 48°C, wed to sot is 52°C if temp of Tue is 42°C temp on saturday?
	Tue + wed + Thur + Fri = 48x4 = 192°C Wed + Thur + Fri = 192°-42°C = 150°C For any or 52°C temp on sat should be 158°C
9.	them Aug of remaining no. 50×28 = 1400
	$\frac{1400-60= 340 }{48} = 27.92$

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	youngest and oldest people have lookyears age in excluding them 40 people have Avg age 28 years while including them 42 people have Avg 30 what age at oldest? Let age at yougest N then oldest is (N+100). N+(N+100) + 40×28 = 42×30 N = 20 Coldest is 120 years
	1
	In group of 5 people if old one is replaced by new Avg age is same as it was before 3 years. what is the difference of awg beth new and old? If Avg of 5 people reduced to as it was 3 year back that means avg decreased by 3 hence to reduced avg of 5 people by 3 a person show replace with (3x5=15) year less person. I difference of old and new is 15 years.
♠.	Avg of botsman in 46 innings is 60 runs, difference of biest and lowest is 150 runs excluding this two inning avg is 58 runs find avg hierabest run? Let lowest scare = n then highest scare = n+150 n+(n+150)+44x58 = 46x60 n=29 [highest scare = 179]
Q.	Vijay says his weight befor 75 kg to 85 kg and his sister say his weight is 70 to 80 but mother says his weight cannot be greater the 78 kg What is weight on an Average if all of them are correct?

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weights satisfying all the conditions are -76 and 77 kg.

Avg of 76 and 77 kg. = 76.5 kg

mon's present age is 125% of age 10 years ago and 83.33%, of his age 10 years from now Let present age is re. then from both condition

(2-10) 1.25 = 0.8333 (2+10)

2 = 50

Avg of 3rd and 4th number in 5 consecutive no. is 10. What is the Sum of these 5 numbers? N, N+1, N+2, N+3, N+4

 $\frac{(N+2)+(N+3)}{2}=10$

Q.

N = 15

Sum = N + (N+1) + (N+2) + (N+3) + (N+4)

= 5N+10

Sum = 47.5

0 Avg of first four day temperature is 36° and Last four days temporature is 38° out of Lost total 5 days. Ratio of 45 1st 85th day 134:5 what is temp of fifth day?