**1. Rakshit sold 21 tables in a day. He told his father, "My earnings at end of the day are Rs 400000/-. The average earning from the first 11 tables I sold was Rs 20000/-". What were his average earnings from the remaining tables?**

**Answer:** d. Rs. 18,000

**2. If I do not consider the earnings from selling the six seater dining table, my average falls by Rs 2000/-. What is the cost of six seater dining table if average earnings from selling 11 four seater dining tables and one six seater dining table is Rs 18000?**

**Answer:** d. Rs. 40000   
  
**Explanation:**   
  
Without six seater dining table, there are 11 four seater dining tables.   
  
Average = 18000 - 2000 = 16000.  
  
Total cost of 11 small dining tables = 11 x 16000 = Rs. 176000  
  
With big dining table, total cost of 12 tables = 12 x 18000 = Rs. 216000  
**Cost of six seater dining table =** 216000 - 176000 = **Rs. 40000**

**3. Akash carried two types of pens with him. The ratio of cost of Pen A : Pen B was 10:4. There were two pens of type B with him and the average cost of all the three pens together was Rs 60/-. Find the cost of Pen A.**

**Explanation:**   
  
Total cost of 3 pens = 3 x 60 = Rs 180/-   
  
Ratio of cost of Pen A : Pen B = 10:4  
  
Let K be common factor.  
  
So, Cost of Pen A = 10K; Cost of both Pen B = 4K (As they are similar)  
  
∴ 10K + 4K + 4K = 180  
  
∴  K = 10  
  
**Cost of Pen A will be =** 10K = **Rs 100/-**

**4. Rishabh's current average of runs is 64. He wanted it to be 66 and this could have been achieved if he had scored 22 runs more in all his innings put together. How many innings has he played till now?**

**Explanation:**   
  
Let number of innings be N.  
  
Since increase in average is by 2 runs (from 64 to 66), runs in each innings would increase by 2 runs  
  
Total increase in runs = 2 x N = 2N  
  
Also, Rishabh needs to score 22 runs more to increase average.  
  
∴ 2N = 22(22 **put together).**  
  
**∴ N = 11 = Number of innings**

**5. In a big joint family of 42 people, the difference between the ages of Great Grandfather and Great Grandson is 100 years. Leaving these two members out, the average age of remaining members is 28 years. The average age of the family otherwise is 30 years. Find the age of the Great  Grandfather.**

**Explanation:**   
  
Total age of all people of group = 42 x 30  
  
Total of age of 40 people = 40 x Average age of 40 people = 40 x 28  
  
If Great Grandson is 'N' years old, Great Grandfather is '100+N' years old.  
  
∴ N + (100+N) + (40 x 28) = 42 x 30  
  
∴ N = 20  
  
**The Great Grandfather is** 100+N = 100 + 20 = **120 years old**

**6. There are 47 boys in a picnic group. The average age of the group is 12 years. However, if the teacher is included in the group, the average age of the group increases by 6 months. Find the age of the teacher.**

**Answer:** Now total is 48 candidates

 b. 36 years

**7. A group of girls decided to go to a nearby food joint and eat some snacks. They were prepared to spend Rs 96 on these snacks. However, some girls could not join because of an extra class and the remaining girls had to spend Rs 4 each extra. Find the number of girls who actually went to the food joint.**

**Answer:** b. 8

**8. 6 numbers average up to 'p'. 3 of them average to 'q' while the remaining 3 average to 'r'. Which of the following relations would hold true?**

**Answer:** b. 2p = q + r

**9. The average runs scored by a cricketer in 10 innings are X. He plays his next innings and scores 108 runs. This increases the average by 6 runs. What is his new average?**

a. 48 runs  
b. 52 runs  
c. 55 runs  
d. 60 runs

**Answer:** a.

Total runs=10X;

New Average= 10X+108/11=x+6;

X=42:

New Average=42+6=48;

10. **Average of 3rd and 5th number in 5 consecutive number is 12. Find the sum of 5 numbers.**

the 5 numbers will be,  
N, N+1, N+2, N+3, N+4  
  
Also,

|  |  |  |  |
| --- | --- | --- | --- |
| Average of 3rd and 5th = | (N+2)+(N+4) | = | 12 |
| 2 |

|  |  |
| --- | --- |
| ∴  N = | 18 |
| 2 |

**Sum =** N+(N+1)+(N+2)+(N+3)+(N+4) = 5N+10 = **55**

**Average**

The average salary of all the workers in a workshop is Rs.8000. The average salary of 7 technicians is Rs.12000 and the average salary of the rest is Rs.6000. The total number of workers in the workshop is:

Find out the total number of workers

8000x=84000+6000x–42000

8000x=84000+6000x–42000

2000x=420002000x=42000

x=21x=21

Therefore the total number of workers in the workshop is = 21.

The average monthly income of P and Q is Rs. 5050. The average monthly income of Q and R is Rs. 6250 and the average monthly income of P and R is Rs. 5200. The monthly income of P is:

Ans:- 2(P + Q + R) = 33000  or   P + Q + R = 16500

P's monthly income = Rs. 4000.

The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is:-

Ans:- A + B + C = (45 x 3) = 135 .... (i)

A + B = (40 x 2) = 80 .... (ii)

B + C = (43 x 2) = 86 ....(iii)

Adding (ii) and (iii), we get: A + 2B + C = 166 .... (iv)

Subtracting (i) from (iv), we get : B = 31.

https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif B's weight = 31 kg.

A library has an average of 510 visitors on Sundays and 240 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is:

Ans:-Total Sunday is 5.

A pupil's marks were wrongly entered as 83 instead of 63. Due to that the average marks for the class got increased by half (1/2). The number of pupils in the class is:

Ans-

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Total increase in marks = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | *x* x | 1 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = | *x* |
| 2 | 2 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif | *x* | = (83 - 63)   https://www.indiabix.com/_files/images/aptitude/1-sym-imp.gif | *x* | = 20    https://www.indiabix.com/_files/images/aptitude/1-sym-imp.gif  *x*= 40. |
|  |  |