

1. Find the average of following numbers
  - (i) 7, 10, 23, 35, 40
  - (ii) 14, 21, 28, 35, .....343
  - (iii) 2, 6, 8, 12, 30
  - (iv) 1, 2, 3, 4, 96, 97, 98, 99
  - (v) 1,2,3,4,.....27
  - (vi) 90, 92, 89, 96, 95, 92
2. Average height of 80 boys is 104 cm. 2 boys with height 98cm and 110cm leaves the group then, find the new average?
3. Present average age of a group of boys is 12 years. Find the average age of the group after 7 years?
4. In a class average age of 10 boys is 13 years and average age of 30 girls is 13 years then, find the average age of the class?
5. Average height of a group of 12 is 82 cm. When two men with height 72 cm and 94 cm are replaced by men with height 106 cm and 48 cm then, find increase in the average height?
6. Average of first 4 numbers out of 5 numbers is 62 and average of last 4 numbers is 67. If ratio of first and last numbers is 7:9 then find last number?
7. Average amount with 10 children is Rs25. A child joins the group with Rs65. Find the new average?
8. Average amount with x boys is Rs36. When a boy with Rs72 joins the group then, average amount increases by Rs2. Find x?
9. Average age of a group of 25 members is 24 years. When a person left the group average age becomes 22 years. Find the age of that member?
10. Average marks of 20 students is 74 but later they came to know that 88 & 76 are wrongly taken as 75 & 59. Find the actual average marks?
11. Average of 1<sup>st</sup> 3 numbers out of 7 numbers is 12 and average of last 3 numbers is 10. Then find 4<sup>th</sup> number if average of 7 numbers is 13?
12.
 

(i) $x > 4$	Quantity B
Quantity A	4
Average(x,4)	
(ii) Quantity A	Quantity B
Average	Average
(10, 20, 40, x)	(11, 19, x, 40)
(iii) Quantity A	Quantity A
Average	Average
(20, 30, 30, 30)	(20, 30, 30, 30, 20)
(iv) Quantity A	Quantity A
$10 \times \text{Average}$	Average
(12, 15, 25, 80)	(120, 150, 250, 800)
13. 40Kg rice costing 24/kg is mixed with 120Kg rice costing 16/kg then find the selling price of the mixture if profit is 15%?
14. In a class average height of x boys is 80cm & average height of y girls is 64cm and average height of entire class is not more than 72cm then which of the following can be the values for (x,y)? (Mark all the correct answers)
 

(A)(500,500)	(B)(25,51)
(C)(51,25)	(D)(1,100)
	(E)(72,70)
15. Average of 25 consecutive natural numbers is 25. Find the smallest number?
16. Find average of all the multiples of 7 between 100 & 350?
17. In a class average weight of 35 boys is x kg and that 54 girls is y kg and average weight of entire class is z kg then
 

Quantity A	Quantity B
x-z	y-z
18. 15lit of 10% spirit solution is mixed with x lit of 6% spirit solution. If the resulting solution has 9% concentration, then find x?
19. 87% milk solution is mixed with x% milk solution in order to get 79% milk solution then find x if quantities of solutions are 5lit and 8lit respectively?
20. A container contains 40lit of milk. From this container 4 lit of milk was taken out and replaced by water. This process was repeated further 2 times. How many litre of milk is now contained by the container?
21. A milk vendor has 2 cans of milk. The first contains 25% water and the rest milk. The second contains 50% water. How much milk solution should he mix from each of the containers so as to get 12 lit solution such that the ratio of water to milk is 3:5? (Mark all the correct options)
 

(A) 4 lit	(B) 5 lit	(C) 6lit
(D) 8lit	(E) 7lit	
22. Average of 5 distinct natural numbers is 28 then find the value of maximum natural number out of five given numbers?
23. Ten years ago average age of a couple was 27 years. Today the present average age of the couple and their child is 27 years. Find the present age of the child?
24. A salesman sold 2 pens : first at 5% profit and second at 2% loss and his overall profit is 4% profit then find the ratio of CP of both the articles.
25. In the next match if Kohli scores 100 runs in the match his average score will be 62.85 but if he scores 50 runs in the match his average score will be 62.35. How many matches has he played?

Average

1. 23,178.5,11.6,50,14,92.33	2. 104	3. 19	4. 13	5. 81
6. 90	7. 28.63	8. 17	9. 72	10. 75.5
11. 25	12. A,C,B,C	13. 18	14. A,B,D	15. 13
16. 224	17. D	18. 5	19. 74%	20. 29.16
21. C	22. 130	23. 7	24. 6:1	25. 99