



**PRACTICE SHEET**

1. 12 kg of rice costing 30 per kg is mixed with 8 kg of rice costing 40 per kg. The average per kg price of mixed rice is

- (1) 38                      (2) 37  
(3) 35                      (4) 34

2. The average income of 40 persons is 4200 and that of another 35 persons is 4000. The average income of the whole group is :

- (1) 4100                      (2)  $4106\frac{1}{3}$   
(3)  $4106\frac{2}{3}$                       (4)  $4108\frac{1}{3}$

3. The average weight of five persons sitting in a boat is 38 kg. The average weight of the boat and the persons sitting in the boat is 52kg. What is the weight of the boat ?

- (1) 228 kg                      (2) 122 kg  
(3) 232 kg                      (4) 242 kg

4. The average marks of 32 boys of section A of class X is 60 whereas the average marks of 40 boys of section B of class X is 33. The average marks for both the sections combined together is

- (1) 44                      (2)  $45\frac{1}{2}$   
(3)  $46\frac{1}{2}$                       (4)  $45\frac{1}{2}$

5. Six tables and twelve chairs were bought for 7,800. If the average price of a table is 750, then the average price of a chair would be

- (1) 250                      (2) 275  
(3) 150                      (4) 175

6. The mean of 9 observations is 16. One more observation is included and the new mean becomes 17. The 10th observation is

- (1) 9                      (2) 16  
(3) 26                      (4) 30

7. The average weight of 15 person in a boat is increased by 1.6 kg when one of the crew, who weighs 42 kg is replaced by a new man. Find the weight of the new man (in kg).

- (1) 67                      (2) 65  
(3) 66                      (4) 43

8. A librarian purchased 50 story-books for his library. But he saw that he could get 14 more books by spending Rs. 76 more and the average price per book would be reduced by Re. 1. The average price (in Rs.) of each book he bought, was :

- (1) 15                      (2) 10  
(3) 25                      (4) 20

9. The average of 9 numbers is 30. The average of first 5 numbers is 25 and that of the last 3 numbers is 35. What is the 6th number?

- (1) 20                      (2) 30  
(3) 40                      (4) 50

10. The average of 15 numbers is 7. If the average of the first 8 numbers be 6.5 and the average of last 8 numbers be 9.5, then the middle number is

- (1) 20                      (2) 21  
(3) 23                      (4) 18

11. Out of seven given numbers, the average of the first four numbers is 4 and that of the last four numbers is

also 4. If the average of all the seven numbers is 3, fourth number is

- (1) 3                      (2) 4  
(3) 7                      (4) 11

12. The average temperature of the first 4 days of a week was  $37^{\circ}\text{C}$  and that of the last 4 days of the week was  $41^{\circ}\text{C}$ . If the average temperature of the whole week was  $39^{\circ}\text{C}$ , the temperature of the fourth day was

- (1)  $38^{\circ}\text{C}$                       (2)  $38.5^{\circ}\text{C}$   
(3)  $39^{\circ}\text{C}$                       (4)  $40^{\circ}\text{C}$

13. In a certain year, the average monthly income of a person was 3,400. For the first eight months of the year, his average monthly income was 3,160 and for the last five months, it was 4,120. His income in the eighth month of the year was

- (1) 3,160                      (2) 5,080  
(3) 15,520                      (4) 5,520

14. The average of 30 numbers is 12. The average of the first 20 of them is 11 and that of the next 9 is 10. The last number is

- (1) 60                      (2) 45  
(3) 40                      (4) 50

15. The average of 11 results is 50. If the average of the first six results is 49 and that of the last six is 52, the sixth no. is

- (1) 48                      (2) 50  
(3) 52                      (4) 56

16. The average of five numbers is 27. If one number is excluded, the average becomes 25. The excluded number is :

- (1) 25                      (2) 27  
(3) 30                      (4) 35

17. The average of marks of 28 students in Mathematics was 50; 8

students left the school, then this average increased by 5. What is the average of marks obtained by the students who left the school ?

- (1) 50.5                      (2) 37.5  
(3) 42.5                      (4) 45

18. The average weight of 12 parcels is 1.8 kg. Addition of another new parcel reduces the average weight by 50 g. What is the weight of the new parcel ?

- (1) 1.50 kg                      (2) 1.10 kg  
(3) 1.15 kg                      (4) 1.01 kg.

19. The average of 50 numbers is 38. If two numbers namely 45 and 55 are discarded, the average of the remaining numbers is :

- (1) 35                      (2) 32.5  
(3) 37.5                      (4) 36

20. There are 50 students in a class. Their average weight is 45 kg. When one student leaves the class the average weight reduces by 100g. What is the weight of the student who left the class ?

- (1) 45 kg                      (2) 47.9 kg  
(3) 49.9 kg                      (4) 50.1 kg

21. Of the three numbers whose average is 60, the first is one fourth of the sum of the others. The first number is :

- (1) 30                      (2) 36  
(3) 42                      (4) 45

22. Of the three numbers, second is twice the first and also thrice the third. If the average of the three numbers is 44, the largest number is :

- (1) 24                      (2) 72  
(3) 36                      (4) 108

23. The average of first three numbers is thrice the fourth number. If the



average of all the four numbers is 5, then find the fourth number.

- (1) 4.5                      (2) 5  
(3) 2                        (4) 4

24. Of the three numbers, first is twice the second and second is twice the third. The average of three numbers is 21. The smallest of the three numbers is

- (1) 9                        (2) 6  
(3) 12                      (4) 18

25. Of the three numbers, the first is 3 times the second and the third is 5 times the first. If the average of the three numbers is 57, the difference between the largest and the smallest number is

- (1) 9                        (2) 18  
(3) 126                    (4) 135

26. Of the three numbers, the first is twice the second and the second is 3 times the third. If their average is 100, the largest of the three numbers is :

- (1) 120                    (2) 150  
(3) 180                    (4) 300

27. Of the three numbers, the first is twice the second and the second is thrice the third. If the average of the three numbers is 10, the largest number is :

- (1) 12                      (2) 15  
(3) 18                      (4) 30

28. The average of first three numbers is double of the fourth number. If the average of all the four numbers is 12, find the 4th number.

- (1) 16                      (2) 48/7  
(3) 20                      (4) 18/7

29. The average of three numbers is 77. The first number is twice the second and the second number is twice the third. The first number is :

- (1) 33                      (2) 66  
(3) 77                      (4) 132

30. Out of three numbers, the first is twice the second and is half of the third. If the average of the three numbers is 56, then difference of first and third number is

- (1) 12                      (2) 20  
(3) 24                      (4) 48

**Answer Key**

1.	(4)	2.	(3)	3.	(2)	4.	(2)	5.	(2)	6.	(3)	7.	(3)	8.	(2)	9.	(3)	10.	(3)
11.	(4)	12.	(3)	13.	(2)	14.	(4)	15.	(4)	16.	(4)	17.	(2)	18.	(3)	19.	(3)	20.	(3)
21.	(2)	22.	(2)	23.	(3)	24.	(1)	25.	(3)	26.	(3)	27.	(3)	28.	(2)	29.	(4)	30.	(4)