



Maths Assignment 1

1. Of three numbers, the first is twice the second and the second is thrice the third. If the average of the three numbers is 10, then the largest number is
(A) 30 (B) 15 (C) 12 (D) 18
2. 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
(A) 2000 (B) 2500 (C) 800 (D) 400
3. A tourist spends daily as many rupees as the number of days of his total tour. If his total expenses were Rs. 361, then how many days did his tour last?
(A) 19 days (B) 21 days (C) 31 days (D) 17 days
4. After replacing an old member by a new member, it was found that the average age of five members of a club is the same as it was 3 years ago. The difference between the ages of the replaced and the new member is
(A) 2 years (B) 4 years (C) 8 years (D) 15 years
5. A man spends Rs. 1800 monthly on an average for the first four months and Rs. 2000 monthly for the next eight months and saves Rs. 5600 a year. His average monthly income is
(A) Rs. 2000 (B) Rs. 2200 (C) Rs. 2400 (D) Rs. 2600
6. The average marks obtained by 22 candidates in an examination are 45. The average marks of the first 10 are 55 and those of the last eleven are 40. The number of marks obtained by the eleventh candidate is
(A) 45 (B) 0 (C) 50 (D) 47.5
7. A man covers a certain distance on Scooter. Had he moved 3 km/hr faster, he would have taken 40 minutes less. If he had moved 2 km/hr slower, he would have taken 40 minutes more. The distance (in km) is
(A) 42.5 (B) 36 (C) 37.5 (D) 40
8. Walking at a speed of 5 km/hr, a man reaches his office 6 minutes late. Walking at 6 km/hr, he reaches there 2 minutes early. The distance of his office is
(A) 2 km (B) 3 km (C) 4 km (D) 3.5 km
9. Two trains 108 m and 112 m in length are running towards each other on the parallel lines at a speed of 45 km/hr and 54 km/hr respectively. To cross each other after they meet, it will take
(A) 10 sec (B) 12 sec (C) 9 sec (D) 8 sec
10. A car driver leaves Bangalore at 8.30 A.M. and expects to reach a place 300 km from Bangalore at 12.30 P.M. At 10.30 he finds that he has covered only 40% of the distance. By how much he has to increase the speed of the car in order to keep up his schedule?
(A) 45 km/hr (B) 40 km/hr (C) 35 km/hr (D) 30 km/hr
11. A man travelled a distance of 80 km in 7 hrs partly on foot at the rate of 8 km per hour and partly on bicycle at 16 km per hour. The distance travelled on the foot is
(A) 32 km (B) 48 km (C) 36 km (D) 44 km
12. By walking at $\frac{3}{4}$ of his usual speed, a man reaches his office 20 minutes later than usual. His usual time is
(A) 30 mins. (B) 75 mins. (C) 90 mins. (D) 60 mins.
13. Two towns A and B are 500 km. apart. A train starts at 8 AM from A towards B at a speed of 70 km/hr. At 10 AM, another train starts from B towards A at a speed of 110 km/hr. When will the two trains meet?
(A) 1 PM (B) 12 Noon (C) 12:30 PM (D) 1:30 PM



14. P can do a piece of work in 9 days. Q is 50% more efficient than P. The number of days it takes for Q to do the same piece of work is
 (A) $13\frac{1}{2}$ (B) $4\frac{1}{2}$ (C) 6 (D) 3
15. 16 women take 12 days to complete a work which can be completed by 12 men in 8 days. A group of 16 people started working and after 3 days 10 men left and 4 women joined them. How many days will it take them to complete the remaining work?
 (A) 4 (B) 6 (C) 8 (D) 10
16. A, B and C can do a piece of work in 10, 12 and 15 days respectively. A leaves before the completion of the work and B leaves 2 days after A. The whole work h for
 (A) 7 days (B) 6 days (C) 12 days (D) 13 days
17. A man is twice as fast as a woman and a woman is twice as fast as a boy in doing a work. If all of them, a man, a woman and a boy can finish the work in 7 days, in how many days a boy will do it alone?
 (A) 49 (B) 7 (C) 6 (D) 42
18. 3 men or 5 women can do a work in 12 days How long will 6 men and women take to finish the work?
 (A) 4 days (B) 5 days (C) 6days (D) 7days
19. A, B and C entered into a partnership. A invested Rs. 2,560 and B Rs. 2,000. At the end of the year, they gained Rs. 1,105, out of which A got Rs. 320. C's capital was
 (A) Rs. 4,280 (B) Rs. 2,840 (C) Rs. 4,820 (D) Rs. 4,028
20. A began business with Rs. 45000 and was joined afterwards by B with Rs. 54000. After how many months did B join if the profit at the end of the year were divided in the ratio 2 : 1?
 (A) 4 (B) 5 (C) 6 (D) 7
21. A boat goes 24 km upstream and 28 km downstream in 6 hours. It goes 30 km upstream and 21 km downstream in 6 hours and 30 minutes. The speed of the boat in still water is
 (A) 8 km/hr (B) 9 km/hr (C) 12 km/hr (D) 10 km/hr
22. A man can swim at the rate of 4 km/hr in still water. If the speed of the water is 2 km/hr, then the time taken by him to swim 10 km upstream is
 (A) $2\frac{1}{2}$ hrs (B) $3\frac{1}{2}$ hrs (C) 5 hrs (D) 4 hrs
23. Speed of a boat is 5 km per hour in still water and the speed of the stream is 3 km per hour. If the boat take 3 hours to go to a place and come back, the distance of the place is:
 (A) 3.75 km (B) 4 km (C) 4.8 km (D) 4.25 km
24. A boat goes 12 km downstream and comes back to the starting point in 3 hours. If the speed of the current is 3 km/hr, then the speed (in km/hr) of the boat in still water is
 (A) 12 (B) 9 (C) 8 (D) 6
25. The driver of a car driving @ 36 kmph locates a bus 40 m ahead of him. After 20 seconds the bus is 60 m behind. The speed of the bus is
 (A) 36 kmph (B) 20 m/sec (C) 72 m/sec (D) 18 kmph