RATIO AND PROPORTION

RATIO AND PROPORTION

Q 1. Find the fourth proportional to the numbers 6, 8, 9.

(1) 12   (2) 7   (3) 5   (4) 14   (5) None of these

RATIO AND PROPORTION

Q 2. Find the third proportional to the numbers 3 and 6.

(1) 21   (2) 1.5   (3) 18   (4) 12   (5) None of these

RATIO AND PROPORTION

Q 3. Two numbers are in the ratio of 9 : 11. If sum of these two numbers is 660, find the difference between the numbers.

(1) 66   (2) 56   (3) 46   (4) 76   (5) None of these

RATIO AND PROPORTION

Q 4. A bag contains 1 rupee, 50-paise and 25-paise coins in the ratio 5 : 7 : 9. If the total amount in the bag is 430, find the number of coins of each kind.

(1) 200, 280, 360

(2) 280, 200, 360

(3) 360, 280, 200

(4) 360, 200, 280

(5) None of these

RATIO AND PROPORTION

Q 5. A bag contains an equal number of 50-paise, 25-paise, 20-paise and 5-paise coins respectively. If the total value is 40, how many coins of each type are there?

(1) 40   (2) 25   (3) 30   (4) 20   (5) None of these

RATIO AND PROPORTION

Q 6. A man adds 6 litres of water to 11 litres of milk and another 9 litres of water to 8 litres of milk. What is the ratio of the strengths of milk in the two mixtures?

(1) 2 : 3   (2) 3 : 2   (3) 11 : 8   (4) 8 : 11   (5) None of these

RATIO AND PROPORTION

Q 7. Two vessels contain equal quantity of mixtures of milk and water in the ratio 8 : 9 and 12 : 5 respectively. Both the mixtures are now mixed thoroughly. Find the ratio of milk to water in the new mixture so obtained.
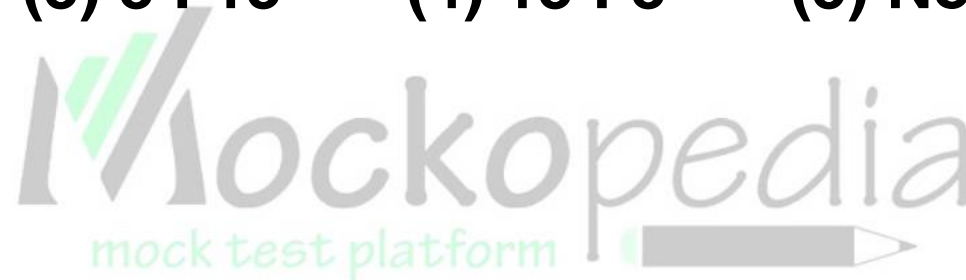
(1) 7 : 10   (2) 13 : 21   (3) 21 : 13   (4) 10 : 7   (5) None of these

RATIO AND PROPORTION

Q 8. Two vessels contain equal quantity of mixtures of milk and water in the ratio 9 : 5 and 4 : 3 respectively. Both the mixtures are now mixed thoroughly. Find the ratio of milk to water in the new mixture so obtained.

(1) 17 : 11   (2) 11 : 17   (3) 8 : 13   (4) 13 : 8   (5) None of these

RATIO AND PROPORTION

Q 9. The contents of two vessels containing water and milk are in the ratio 2 : 3 and 4 : 5 are mixed in the ratio 1 : 2. The resulting mixture will have water and milk in the ratio_____ .

(1) 77 : 58   (2) 58 : 77   (3) 68 : 77   (4) 77 : 68   (5) None of these

RATIO AND PROPORTION

Q 10. The contents of two vessels containing water and milk are in the ratio 3 : 4 and 5 : 4 are mixed in the ratio 1 : 4. The resulting mixture will have water and milk in the ratio_____ .

(1) 184 : 176　　　　**(2) 167 : 184**　　　　**(3) 167 : 148**　　　　**(4) 148 : 167**

(5) None of these

RATIO AND PROPORTION

Q 11. An amount of 950 is distributed among A, B and C in the ratio of 5 : 11 : 3, what is the difference between the shares of B and A?

(1) 550　　　　(2) 250　　　　(3) 200　　　　(4) 300　　　　(5) None of these

RATIO AND PROPORTION

Q 12. A and B are two alloys of gold and copper prepared by mixing metals in proportions 7 : 2 and 7 : 11 respectively. If equal quantities of alloys are melted to form a third alloy C, the proportion of gold and copper in C will be :

(1) 5 : 9   (2) 5 : 7   (3) 7 : 5   (4) 9 : 5   (5) None of these

RATIO AND PROPORTION

Q 13. The sum of three numbers is 105. If the ratio between the first and second be 2 : 3 and that between the second and third be 4 : 5, then find the second number.

(1) 35   (2) 24   (3) 36   (4) 45   (5) None of these

RATIO AND PROPORTION

Q 14. The sum of three numbers is 275. If the ratio between the first and second be 3 : 7 and that between the second and third be 2 : 5, then find the second number.

(1) 30   **(2) 175**   **(3) 70**   **(4) 80**   **(5) None of these**

RATIO AND PROPORTION

Q 15. If A : B = 3 : 4, B : C = 5 : 7 and C : D = 3 : 5, then find A : B : C : D.

(1) 9 : 21 : 12 : 28   (2) 45 : 60 : 84 : 140   (3) 9 : 12 : 28 : 21

(4) 9 : 12 : 21 : 82   (5) None of these

RATIO AND PROPORTION

Q 16. A hound pursues a hare and takes 6 leaps for every 7 leaps of the hare, but 5 leaps of the hound are equal to 6 leaps of the hare. Compare the rates of the hound and the hare.

(1) 36 : 35   (2) 35 : 34   (3) 34 : 33   (4) 3 : 32   (5) None of these

RATIO AND PROPORTION

Q 17. A hound pursues a hare and takes 3 leaps for every 4 leaps of the hare, but 2 leaps of the hound are equal to 3 leaps of the hare. Compare the rates of the hound and the hare.

(1) 9 : 8   (2) 7 : 6   (3) 5 : 6   (4) 8 : 9   (5) None of these

RATIO AND PROPORTION

Q 18. In 28 litres mixture of milk and water the ratio of milk and water is 5 : 2. How much water should be added in the mixture so that the ratio of milk to water becomes 2 : 5?

(1) 42 litres   (2) 32 litres   (3) 24 litres   (4) 39 litres

(5) None of these

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APTITUDE
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RATIO AND PROPORTION

Q 19. In a mixture of 60 litres, the ratio of milk and water is 2 : 1. If the ratio of milk and water is to be 1 : 2, then the amount of water to be further added is :
(1) 42 litres   (2) 56 litres   (3) 60 litres   (4) 77 litres

(5) None of these

RATIO AND PROPORTION

Q 20. A mixture contains milk and water in the ratio of 9 : 4. On adding 4 litres of water, the ratio of milk to water becomes 3 : 2. Find the total quantity of the original mixture.

(1) 26 litres   (2) 18 litres   (3) 10 litres   (4) 30 litres

(5) None of these

RATIO AND PROPORTION

Q 21. A mixture contains milk and water in the ratio of 4 : 3. On adding 2 litres of water, the ratio of milk to water becomes 8 : 7. Find the total quantity of the final mixture.

(1) 16 litres   (2) 12 litres   (3) 28 litres   (4) 30 litres

(5) None of these

RATIO AND PROPORTION

Q 22. The ratio between two numbers is 15 : 7. If each number be decreased by 2, the ratio becomes 7 : 3. Find the numbers.

(1) 15, 7   (2) 30, 14   (3) 45, 21   (4) 60, 28   (5) None of these

RATIO AND PROPORTION

Q 23. The incomes of A and B are in the ratio 9 : 4 and their expenditures are in the ratio 7 : 3. If each saves 2000, what are their incomes?

(1) 90000, 4000   (2) 27000, 12000   (3) 72000, 16000   (4) 72000, 32000

(5) None of these

RATIO AND PROPORTION

Q 24. A mixture contains milk and water in the ratio of 9 : 4. On adding 8 litres of water, the ratio of milk to water becomes 3 : 2. Find the total quantity of the original mixture.

(1) 52 litres   (2) 26 litres   (3) 104 litres   (4) 30 litres

(5) None of these

RATIO AND PROPORTION

Q 25. A mixture contains milk and water in the ratio of 4 : 3. On adding 6 litres of water, the ratio of milk to water becomes 8 : 7. Find the total quantity of the final mixture.

(1) 168 litres   (2) 12 litres   (3) 42 litres   (4) 84 litres

(5) None of these

RATIO AND PROPORTION

Q 26. Find the number which, when added to the terms of the ratio 13 : 28 makes it equal to the ratio 1 : 2.

(1) 4   (2) 3   (3) 2   (4) 1   (5) None of these

RATIO AND PROPORTION

Q 27. Find the number which, when subtracted from the terms of the ratio 11 : 25 makes it equal to the ratio 4 : 11.

(1) 4   (2) 3   (3) 2   (4) 1   (5) None of these

RATIO AND PROPORTION

Q 28. A bucket contains a mixture of two liquids A and B in the proportion 5 : 3. If 16 litres of the mixture is replaced by 16 litres of liquid B, then the ratio of the two liquids becomes 3 : 5. How much of the liquid B was there in the bucket?

(1) 25 litres   (2) 15 litres   (3) 18 litres   (4) 24 litres

(5) None of these

RATIO AND PROPORTION

Q 29. A bucket contains a mixture of two liquids A and B in the proportion 6 : 5. If 33 litres of the mixture is replaced by 33 litres of liquid B, then the ratio of the two liquids becomes 3 : 4. How much of the liquid A was there in the bucket?

(1) 84 litres   (2) 48 litres   (3) 70 litres   (4) 64 litres

(5) None of these

RATIO AND PROPORTION

Q 30. A vessel contains liquids A and B in ratio 3 : 1. If 8 litres of the mixture are removed and the same quantity of liquid B is added, the ratio becomes 1 : 3. What quantity does the vessel hold?

(1) 12 litres   (2) 14 litres   (3) 16 litres   (4) 10 litres

(5) None of these

RATIO AND PROPORTION

Q 31. A vessel contains liquids A and B in ratio 7 : 6. If 26 litres of the mixture is removed and the same quantity of liquid B is added, the ratio becomes 6 : 7. What quantity does the vessel hold?

(1) 142 litres　　　　(2) 172 litres　　　　(3) 156 litres　　　　(4) 182 litres

(5) None of these

RATIO AND PROPORTION

Q 32. An employer reduces the number of his employees in the ratio 9 : 4 and increases their wages in the ratio 2 : 5. State whether his bill of total wages increases or decreases, and in what ratio?

(1) Decrease, 10 : 9   (2) Increase, 10 : 9   (3) Decrease 9 : 11

(4) Increase, 9 : 10   (5) None of these

RATIO AND PROPORTION

Q 33. Two candles of the same height are lighted at the same time. The first is consumed in 7 hours and the second in 6 hours. Assuming that each candle burns at a constant rate, in how many hours after being lighted, the ratio between the first and second candles becomes 3 : 1.

(1) 5 hours 36 minutes   (2) 5 hours   (3) 5 hours 60 minutes

(4) 6 hours   (5) None of these

RATIO AND PROPORTION

Q 34. Two candles of the same height are lighted at the same time. The first is consumed in 3 hours and the second in 1 hour. Assuming that each candle burns at a constant rate, in how many hours after being lighted, the ratio between the first and second candles become 2 : 1.

(1) 48 minutes   (2) 1 hour 36 min   (3) 36 minutes   (4) 60 minutes
(5) None of these

RATIO AND PROPORTION

Q 35. **Divide 1162 into three parts such that 4 times the first is equal to 5 times the second and 7 times the third. Find the value of smallest part.**

(1) 490   **(2) 492**   **(3) 390**   **(4) 280**   **(5) None of these**

RATIO AND PROPORTION

Q 36. Divide 680 among A, B and C such that A gets 2/3 of what B gets and B gets 1/4th of what C gets. What is C's share?

(1) 280   (2) 380   (3) 480   (4) 120   (5) None of these

APTITUDE

RATIO AND PROPORTION

Q 37. When 50% of one number is added to a second number, the second number increases to its four-thirds. What is the ratio between the first number and the second number?

(1) 3 : 2   (2) 3 : 4   (3) 2 : 3   (4) Data inadequate

(5) None of these

RATIO AND PROPORTION

Q 38. 600 has been divided among A, B and C in such a way that 40 more than (2/5) of A's share, 20 more than (2/7) of B's share, 10 more than (9/17) of C's share, are all equal. A's share is :
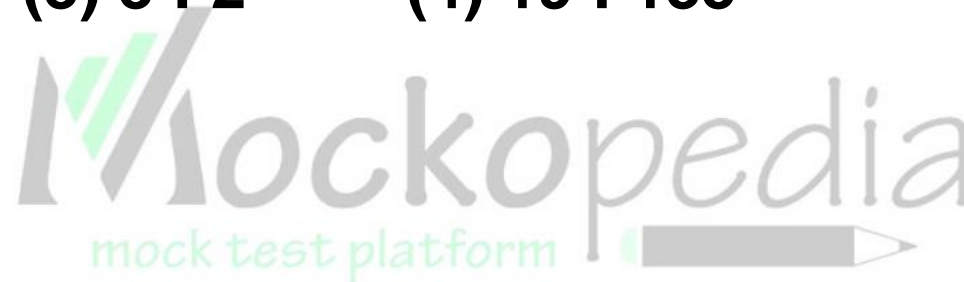
(1) 280   (2) 170   (3) 150   (4) 200   (5) None of these

RATIO AND PROPORTION

Q 39. Gold is 19 times as heavy as water and copper 9 times as heavy as water. The ratio in which these two metals be mixed so that the mixture is 15 times as heavy as water, is :

(1) 1 : 2   (2) 2 : 3   (3) 3 : 2   (4) 19 : 135   (5) None of these

RATIO AND PROPORTION

Q 40. One year ago the ratio between Laxman's and Gopal's salary was 3 : 4. The individual ratios between their last year's and this year's salaries are 4 : 5 and 2 : 3 respectively. At present the total of their salary is 4160. The salary of Laxman now, is–

(1) 1600   (2) 2560   (3) 1040   (4) 3120   (5) None of these

THANK YOU