

- 1. If 20% of 40% of a = 25% of a% of b, then what is b?**
  - a)  $\frac{8}{5}$
  - b)  $\frac{16}{25}$
  - c)  $\frac{8}{25}$
  - d) None
- 2. By what % is 200 more than 50?**
  - a) 100
  - b) 200
  - c) 300
  - d) None
- 3. A value changes from 30 to 80. What is the percentage change?**
  - a) 125
  - b) 166.66
  - c) 156
  - d) None
- 4. The population of a city is increased by 30% and thus became 78000. What is the original population?**
  - a) 76000
  - b) 64200
  - c) 60000
  - d) None
- 5. In a theatre, the number of seats is increased by 20% and the price per ticket is increased by 10% but the public response decreased by 30%. What is the net effect on the economy of the theatre?**
  - a) 10% Rise
  - b) 7% Raise
  - c) %7 Fall
  - d) None
- 6. A saves 20% of his income. His income is increased by 20% and so he increased his expenditure by 30%. What is the percentage change in his savings?**
  - a) 20% fall
  - b) 4% fall
  - c) 20% rise
  - d) 4% rise
- 7. The price of petrol is increased by 25%. By what percent the consumption be reduced to make the expenditure remain the same?**
  - a) 25%
  - b) 33.33%
  - c) 20%
  - d) None
- 8. The side of a square is increased by 20%. The percentage change in its area is \_\_\_\_ %**

- a) 20
- b) 44
- c) 36
- d) None

**9. If the length of a rectangle is increased by 33.33%, by what percentage should the breadth be reduced to make the area same?**

- a) 20%
- b) 33.33%
- c) 25%
- d) None

**10. In an election between two candidates, A and B, A secured 56% of the votes and won by 48000 votes. Find the total number of votes polled if 20% of the votes were declared invalid.**

- a) 400000
- b) 500000
- c) 600000
- d) None

**11. A reduction of 10% in price of sugar enables a housewife to buy 5 kg more for Rs. 300/-. Find the reduced price per kg of sugar**

- a. 5/-
- b. 4.5/-
- c. 6/-
- d. None

**12. From a 20lt solution of salt and water with 20% salt, 2lt of water is evaporated. Find the new % concentration of salt**

- a. 20%
- b. 23%
- c. 25%
- d. None

**13. In a list of weights of candidates appearing for police selections, the weight of A is marked as 58 kg instead of 46.4 kg. Find the percentage of correction required**

- a. 30
- b. 20
- c. 24
- d. None

**14. A person spends 20% of his income on rent, 20% of the rest on food, 10% of the remaining on clothes and 10% on groceries. If he is left with Rs. 9520/- find his income**

- a. 10000/-
- b. 15000/-
- c. 20000/-
- d. None

15. A shopkeeper offers three successive discounts of 10%, 20% and 30% to a customer. If the actual price of the item is Rs. 10000, find the price the customer has to pay to the shopkeeper.
- 5040/-
  - 4000/-
  - 6000/-
  - None
16. If 10lt solution of water and alcohol containing 10% alcohol is to be made 20% alcohol solution, find the volume of alcohol to be added
- 1 lt
  - 1.25 lt
  - 1.5 lt
  - 2 lt
17. A is twice B and B is 200% more than C. By what percent is A more than C?
- 400
  - 600
  - 500
  - 200
18. In an examination, a student secures 40% and fails by 10 marks. If he scored 50%, he would pass by 15 marks. Find the minimum marks required to pass the exam
- 250
  - 100
  - 110
  - 125
19. If A is 20% taller than B, by what percent is B shorter than A?
- 20%
  - 25%
  - 16.66%
  - None
20. The population of a town increases at a rate of 10% for every year. If the present population is 12100, find the population two years ago
- 11000
  - 9800
  - 10000
  - 10120
21. 30% of 140 =? % of 840
- 10
  - 5
  - 15
  - 20

**22. What percentage of Rs.400 is Rs.100?**

- a) 25%
- b) 30%
- a) c)15%
- c) 20%

**23. A number exceeds its 33% by 180. Find the number?**

- a) 540
- b) 135
- c) 270
- d) 300

**24. If 40% of a number added to 1800, it gives the number itself. Find the number?**

- a) 3000
- b) 4500
- c) 2000
- d) None

**25. Anu's salary is 20% less than Bhanu's salary. By how much percent is the salary of Bhanu more than that of Anu?**

- a) 30%
- b) 33%
- c) 25%
- d) None

**26.  $x\%$  of  $y$  +  $y\%$  of  $x$  is equal to?**

- a)  $x\%$  of  $y$
- b)  $2\%$  of  $xy$
- c)  $20\%$  of  $xy$
- d)  $2\%$  of  $100xy$

**27. The sales of a company reduced to 20%. After how much percentage increase of the sales of the company be in original?**

- a) 80%
- b) 20%
- c) 100%
- d) 400%

**28. The salary of a worker is increased by 20% and then decreased by 20%. Find the % change in the salary**

- a) 4% increase
- b) 4% decrease
- c) 40% decrease
- d) No Change

**29. In an examination 45% of the total numbers of candidates were under 15 years age. Of these 65% were boys and there were 441 girls. Find the total number of candidates.**

- a) 24,000
- b) 28,000
- c) 30,000
- d) None

**30. The price of sugar falls by 10%. How many quintals can be bought for the same money which was sufficient to buy 18 quintals at higher price?**

- a) 20
- b) 10
- c) 18
- d) None

**31. A boy has certain number of chocolates of which he gave 13% to his brother. And 75% of the remaining to his friend, and then he has 261 left. How many did he has at first?**

- a) 1300
- b) 1250
- c) 610
- d) 1200

**32. The price of a T.V. is increased by 20% and sales are decreased by 30%. Find the percentage change in the revenue?**

- a) 16% decrease
- b) 10% decrease
- c) 16% increase
- d) none of these

**33. The side of a square is decreased by 10%. What is the percent of change in area?**

- a) 20% decrease
- b) 100% decrease
- c) 19% decrease
- d) 21% decrease

**34. A man spends 20% of his capital on raw material, 25% on building, 10% on the machinery and he was left with 4.5 lakh rupees. Find his actual capital?**

- a) 1,00,000
- b) 10,00,000
- c) 20,00,000
- d) 15,00,000

**35. A man spends 10% of his capital on raw material, 20% of the remaining on advertisement, 30% of the remaining on building, 40% of the balance on machinery and thus he was left with Rs.9072. Find his capital.**

- a) 36,000
- b) 40,000
- c) 45,000
- d) 30,000

**36. In a town 20% of the population speak English, 40% of the remaining speak Telugu, 25% of the remaining speak Tamil. 43,200 speak all other languages. Find the population of the town?**

- a) 1,20,000
- b) 1,00,000
- c) 1,25,000
- d) 1,50,000

**37. In an examination 70% of the candidates passed in English, 60% passed in Telugu and 10% failed in both. Find the pass percentage?**

- a) 30%
- b) 40%
- c) 50%
- d) 20%

**38. The population of a town is 60,000. If males are increased by 20% and females are increased by 40%. At the end of the year the population will be 78,000. Find the number of females in the town at the beginning?**

- a) 30,000
- b) 40,000
- c) 20,000

d) None of these

**39.**In an examination, 80% of the students passed in Hindi and 90% passed in Telugu, while 5% of the students failed in both the subjects. If 180 students passed in both the subjects, find the total number of students who appeared in the examination.

- a) 250
- b) 240
- c) 300
- d) 340

**40.**In an election where there are two candidates only contested. One candidate who gets 65% of the votes is elected by majority of 660 votes. Find the total number of votes.

- a) 2000
- b) 2500
- c) 2200
- d) 2400

**41.** In an election two candidates were contested. 75% of the total votes were polled. 20% of the polled votes were invalid. A person who got 40% of the valid votes was defeated by 24,000 votes. Find the number of invalid votes and polled votes.

- a) 16,000; 64,000
- b) 64,000; 80,000
- c) 16,000; 1,00,000
- d) 16,000; 80,000

**42.**A student has to obtain 35% of the total marks to pass the examination. Shyam got 30% of the total marks and failed by 15 marks. What is the maximum mark to pass?

- a) 105
- b) 240
- c) 350
- d) 300

**43.**In an examination P gets 30% of total marks and fails by 18 marks. While Q gets 40% of the total marks and he got 12 marks more than the pass marks. Find the maximum marks and pass %?

- a) 300; 35%
- b) 360; 30%
- c) 300; 36%
- d) None of these

**44. In an examination there are 2000 candidates, out of which 900 are boys. If 32% of the boys and 38% of the girls passed, find the percentage of failed candidates.**

- a) 67.4%
- b) 64.7%
- c) 65.4%
- d) None of these

**45. The population of a town is 1,00,000 now. If it increases at a rate of 10% p.a., find the population after 2 years?**

- a) 1,21,000
- b) 1,20,000
- c) 1,10,000
- d) None of these

**46. Successive discounts of 20% and 20% are equivalent to a single discount of?**

- a) 40%
- b) 25%
- c) 36%
- d) None of these

**47. Successive discounts of 30%, 40% and 50% are equivalent to a single discount of?**

- a) 90%
- b) 120%
- c) 80%
- d) None of these

**48. The marked price of a table is Rs.1,000 and two successive discounts of 30% & 20% are allowed. Find the selling price?**

- a) 600
- b) 560
- c) 660
- d) None of these

**49. The price of oil is increased by 25%. But a family can increase the expenditure on oil by 15% only. By what percent should that family reduce the consumption of oil?**

- a) 10%
- b) 8%
- c) 10%
- d) 40%



**50. In a bag containing balls, are red, % are blue, are green and 50% of the remaining are yellow and still remaining 12 are white. What is the total numbers of balls in the bag?**

- a) 302
- b) 340
- c) 160
- d) 320

**51. In a group of 80 boys, 60% play chess, 75% play cricket and 55% play both. How many of them do not play any of these two games?**

- a) 24
- b) 20
- c) 18
- d) 16

**52. In a bookstore 25% of books are in English, 60% of the remaining are in Hindi, % of the remaining are in Telugu and remaining 64,000 are in other languages. What is the total number of books in that bookstore?**

- a) 2,56,000
- b) 3,20,000
- c) 4,50,000
- d) 6,40,000

**53. Three numbers are in the ratio of 3:4:8 respectively. If the first is increased by 25%, the second is decreased by 20% and the third is unaltered, respectively their ratio will be?**

- a) 75:64:180
- b) 75:56:160
- c) 75:64:160
- d) 125:64:160

**54. 60% of the employees in a factory are unskilled and the rest are skilled. If 35% of the skilled employees are women and the numbers of skilled male employees are 156, then the total number of employees in that factory is?**

- a) 420
- b) 560
- c) 600
- d) 720

**55. In an examination, 22% students failed. If the number of passed candidates was 420 more than number of failed candidates, then the total number of candidates appeared the examination is?**

- a) 300
- b) 324
- c) 750
- d) 960

**56. A man gave of his property to his wife, 35% his three sons equally, 25% to his two daughters equally, to himself and donated the balance of Rs.1,50,000 to an old age home. Find the difference between the shares of each son and each daughter.**

- a) Rs.16,000
- b) Rs.20,000
- c) Rs.24,000
- d) 22,500

**57. In a field 30% are coconut trees, 40% of the rest are bananas trees, 42% of the rest are guava trees and still rest are mango trees. If the number of banana trees is 420, find the total number of trees in that field.**

- a) 1,200
- b) 1,500
- c) 1,600
- d) 1,800

**58. The sales of an item increases by 20% every week. If the difference between the sales of the fourth week and the second is 157, what are the sales in the third week?**

- a) 432
- b) 423
- c) 243
- d) 234

**59. If the length, breadth and height of a room are increased by 50%, 33% and 25% respectively. Then what is the percentage increase in the volume of the room?**

- a) 240%
- b) 100%
- c) 150%
- d) 200%

**60. If 40% of P is 40 more than 40% of 40 then 40% of P is?**

- a) 58

- b) 52
- c) 56
- d) 54

**61. If A is 25% of C and B is 30% of C, then what percentage of A is B?**

- a)  $83 \frac{1}{3}\%$  of B
- b)  $83 \frac{9}{3}\%$  of B
- c)  $81 \frac{1}{3}\%$  of B
- d)  $83 \frac{2}{3}\%$  of B

**62. Two numbers are respectively 25% and 50% more than a third number. What percent is the first of the second?**

- a)  $26 \frac{2}{3}\%$  of second
- b)  $26 \frac{3}{4}\%$  of second
- c)  $83 \frac{1}{3}\%$  of second
- d)  $83 \frac{2}{3}\%$  of second

**63. Two numbers are respectively 20% and 32% less than a third number. What percent is the second of the first?**

- a) 15% of the first
- b) 85% of the first
- c) 25% of the first
- d) none of these

**64. If the price of a commodity increases by 50%, find how much percent its consumption be reduced so as not increase the expenditure**

- a)  $33 \frac{1}{3}\%$
- b)  $66 \frac{3}{4}\%$
- c) 75%
- d) none of these

**65. If the price of a commodity decreases by 50%, find how much percent its consumption be increased so as not decrease the expenditure**

- a) 100%
- b) 0%
- c) 10%
- d) none of these

**66.If the salary of Mr. Shashi is first increased by 18% and thereafter decreased by 15%, what is the net change in his salary?**

- a) a)7%
- b) b)3%
- c) c)0.3%
- d) d)0.7%

**67.The population of a town is decreased by 20% and 40% in two successive years. What percent population is decreased after two years?**

- a) a)55%
- b) b)45%
- c) c)48%
- d) d)52%

**68.If the side of a square is increased by 10%, its area increased by k%. Find the value of k**

- a) a)21
- b) b)15
- c) c)42
- d) d)12

**69.The radius of a circle is increased by 4%. Find the percentage increase in its area**

- a) a)9%
- b) b) $8\frac{4}{25}\%$
- c) c) $2\frac{2}{25}\%$
- d) d)none of these

**70.The population of a town increases by 4% annually. If its present population is 12500, what will it be in 2 years time?**

- a) a)13520
- b) b)14520
- c) c)11520
- d) d)none of these