


Level - Beginner

1. What percent of $\frac{3}{7}$ is $\frac{1}{105}$
A] 10% B] 2.22% C] 45% D] 450%
2. What is the 20% of 50% of 75% of 50% ?
A] 5.25 B] 6.75 C] 7.25 D] 5.5
3. If the cost of a calculator worth Rs 250 is increased by Rs 100, the rate of increase is
A] 100% B] 40% C] 25% D] none
4. A number increased by 37.5% gives 99 the number is
A] 140 B] 61.5 C] 72 D] 48
5. Ram sells his goods 25% cheaper than Shyam and 25% dearer than Bram. How much percentage is Bram's goods cheaper than Shyam's ?
A] 33.33% B] 50% C] 66.66% D] 40%
6. In a exam 52% of the candidates failed in science, 42% in maths and 17% in both. The number of those who passed in both the subjects is
A] 83% B] 64% C] 23% D] 55.5%
7. The price of an item is increased by 20% and then decreased by 20%. The final price as compared to original price
A] 4% more B] 20% more C] 20% less D] 4% less
8. If A's height is 40% less than that of B, how much percent B's height is more than that of A?
A] 66.66% B] 76.66% C] 96.66% D] 86.66%
9. A student multiplied a number by $\frac{3}{5}$ instead of $\frac{5}{3}$, What is the percentage error in the calculation?
A] 54 % B] 64% C] 74% D] 84%
10. In an election between 2 candidates, Bhiku gets 65% of the total valid votes. If the total votes were 6000, what is the number of valid votes that the other candidate Mhatre gets if 25% of the total votes were declared invalid?
A] 1625 B] 1575 C] 1675 D] 1525

11. If the price of a book is first decreased by 25% and then increased by 20%, then the net change in the price will be :
 A] 10% B] 20% C] 30% D] 40%
12. A batsman scored 120 runs which included 3 boundaries and 8 sixes. What percent of his total score did he make by running between the wickets?
 A] 40 B] 45 C] 50 D] 55
13. A man spends 35% of his income on food, 25% on children's education and 80% of the remaining on house rent. What percent of his income he is left with ?
 A] 6 B] 8 C] 10 D] 12
14. A's salary is 40% of B's salary which is 25% of C's salary. What percentage of C's salary is A's salary ?
 A] 10% B] 20% C] 30% D] 40%
15. Of the 1000 inhabitants of a town, 60 % are males of whom 20 % are literate. If, of all the inhabitants, 25% are literate, then what percent of the females of the town are literate ?
 A] 32.5% B] 43% C] 46.6% D] 53.2%
16. X is 75% of Y. The percentage of Y to X is:
 A] 25% B] $33\frac{1}{3}\%$ C] 125% D] $133\frac{1}{3}\%$
17. X is 80% of y. The percentage of y to y - x is:
 A] 120% B] 400% C] 500% D] None of these
18. Verma gets 10% more than Akbar, then Akbar gets
 A] 10% less than Verma B] 9% less than Verma
 C] $9\frac{1}{11}\%$ less than Verma D] 10% more than Verma
19. The price of sugar having risen. By 50% by what fraction must a householder reduce his consumption of sugar so as not to increase his expenditure?

A] $\frac{1}{4}$ B] $\frac{1}{3}$ C] $\frac{1}{2}$ D] none

20. The population of a town is 12000, if the number of males be increased by 6% and that of females by 8%, the population would be increased to 12800. Find the strength of females in the town.

A] 3500 B] 4000 C] 4500 D] 5000

21. In a mixture of 80 litres of milk and water, 25% of the mixture is milk. How much water should be added to the mixture so that milk becomes 20% of the mixture?

A] 20 litres B] 15 litres C] 25 litres D] 24 litres

22. 300 gm of sugar solution has 30% sugar in it. How much sugar should be added to make it 60% in the solution?

A] 90 gm B] 180 gm C] 225 gm D] 315 gm

23. A man spent 6.25% of what he had. If his expenditure amounted to Rs 75, what amount he had?

A] Rs 1000 B] Rs 1200 C] Rs 1600 D] Rs 1100

24. An Engineering student has to secure 40% marks to pass. He get 80 marks and fails by 40 marks. Find his maximum marks.

A] 200 B] 300 C] 250 D] 400

25. The population of a town increased from 70000 to 71050. Find the increase percent.

A] 1.5% B] 1.75% C] 1.25% D] 2%

26. If the income tax be reduced from $3\frac{1}{2}\%$ to $3\frac{1}{3}\%$ what difference does it make to a man whose annual income in Rs 8400?

A] Rs 7 B] Rs 28 C] Rs 21 D] Rs 14

27. A man spent 12.50% of his money and after spending 75% of the remainder, he had Rs 175 left. How much had he at first?

A] Rs. 800 B] Rs 1200 C] Rs 1600 D] None of these

28. Two numbers are respectively 20% and 50% more than a third number. What percentage is the first of the second?

A] 60% B] 70% C] 80% D] 40%

29. Candidate who gets 30% of the marks in an examination fails by 50 marks. Another candidate who gets 320 marks fails by 30 marks. Find the maximum number of marks.

A] 800 B] 900 C] 1000 D] None of these

30. In an examination paper is set to 2500 pupils of whom 'one fifth are girls and the rest boys. 5% of the boys fail and 40% of the girls fail. What percent of the whole passed?

- A] 82% B] 75% C] 80% D] 88%
31. The length, breadth and height of a room in the shape of a cuboid are increased by 10%, 20% and 50% respectively. Find the percentage change in the volume of the cuboid.
- A] 77% B] 75% C] 88% D] 98%
32. The price of the sugar is reduced by 25% but inspite of the decrease, Aayush ends up increasing his expenditure on sugar by 20%. What is the percentage change in his monthly consumption of sugar?
- A] +60% B] -10% C] +33.33% D] -50%
33. The population of the village of Gavas is 10,000 at this moment. It increases by 10% in the first year. However, in the second year, due to immigration, the population drops by 5%. Find the population at the end of the third year if in third year the population increase by 20%
- A] 12,340 B] 12,540 C] 1, 27, 540 D] 12, 340
34. Ram spends 20% of his monthly income on his household expenditure, 15% of the rest on books, 30% of the rest on clothes and saves the rest. On counting, he comes to know that he has finally saved Rs. 9520. Find his monthly income.
- A] 10000 B] 15000 C] 20000 D] 12000
35. The population of a village is 5500. If the number of males increases by 11% and the number of females increases by 20% , then the population becomes 6330. Find the population of females in the town.
- A] 2500 B] 3000 C] 2000 D] 3500
36. Last, year the Indian Cricket team played 40 one-day cricket matches out of which they managed to win only 40%. This year, so far it has played some matches, which made it mandatory for it to win 80% of the remaining matches to maintain its exiting winning percentage. Find the number of matches played by India so far this year.
- A] 30 B] 25 C] 28 D] Insufficient information
37. In the recent, climate conference in New York, out of 700 men, 500 women, 800 children present inside the building premises, 20% of the men, 40% of the women and 10% of the children were Indians. Find the percentage of people who were not Indian.
- A] 73% B] 77% C] 79% D] 83%
38. In an examination, 48% students failed in Hindi and 32% students in History, 20% students failed in both the subjects. If the number of students who passed the examination was 880, how many students appeared in the examination if the examination consisted only of these two subjects?
- A] 2000 B] 2200 C] 2500 D] 1800
39. A machine depreciates in value year at the rate of 10% of its previous value. However, every second year there is some maintenance work so that in that particular year, depreciation is

only 5% of its previous value. If at the end of the fourth year, the value of the machine stands at Rs. 1,46,205, then find the value of machine at the start of the first year.

- A] Rs. 1, 90, 000 B] Rs. 2, 00, 000 C] Rs. 1, 95, 000
D] 2,10,000

40. After three successive equal percentage rise in the salary the sum of 100 rupees turned into 140 rupees and 49 paise. Find the percentage rise in the salary.

- A] 12% B] 22% C] 66% D] 82%

Level – Expert

- The price of a certain article was raised by 10% in India. The consumption of the same article was increased from 200 tons to 225 tons. By how much percent will the expenditure on the article rise in the Indian economy?
A] 24.25% B] 22.5% C] 23.75% D] 26.75%
- In the University examination last year, Rajesh scored 65% in English and 82% in History. What is the minimum percent he should score in Sociology, which is out of 50 marks (if English and History were for 100 marks each), if he aims at getting 78% overall?
A] 94% B] 92% C] 98% D] 96%
- King Dashratha, at his eleventh hour, called his three queens and distributed his gold in the following way: HE gave 50% of his wealth to his first wife, 50% of the rest to his second wife and again 50% of the rest to his third wife. If their combined share is worth 1,30,9000 kilograms of gold, find the quantity of gold King Dashratha was having initially?
A] 1, 50, 000 kg B] 1,49,600 kg C] 1,51,600 kg D] 1,52,600 kg
- The population of New Foundland increases with a uniform rate of 80% per annum, but due to immigration, there is a further increase of population by 1% (however, this 1% increase in population is to be calculated on the population after the 8% increase and not on the previous year's population).
A] 18.984 B] 18.081 C] 18.24 D] 17.91
- A's salary is first increased by 25% and then decreased by 20%. The result is the same as B's salary increased by 20% and then reduced by 25%. Find the ratio of B's salary to that of A's.
A] 4 : 3 B] 11 : 10 C] 10 : 9 D] 12 : 11
- The minimum quantity of milk in litres (in whole number) that should be mixed in a mixture of 60 litres in which the initial ratio of milk to water is 1 : 4 so that the resulting mixture has 15% milk is
A] 3 B] 4 C] 5 D] This is not possible
- A person saves 6% of his income. Two years later, his income shoots up by 15% but his savings remain the same. Find the hike in his expenditure.
A] 15.95% B] 15% C] 14.8% D] 15.5%

8. A is 50% more than B, C is $\frac{2}{3}$ of A and D is 60% more than C. Now, each of A,B,C and D is increased by 10%. Find what per cent of B is D (after the increase)?
 A] 150% B] 160% C] 175% D] 176%
9. A & B have, between them, Rs. 1200. A spends 12% of his money while B spends 20% of his money. They are then left with a sum that constitutes 85% of the whole sum. Find what amount is left with A.
 A] Rs 750 B] Rs. 800 C] Rs. 700 D] Rs. 660
10. In order to maximize his gain, a theatre owner decides to reduce the price of tickets by 20% and as a result of this, the sales of tickets increase by 40%. If, as a result of these changes, he is able to increase his weekly collection by Rs. 1,68,000. Find by what value did the gross collection increase per day.
 A] 14,000 B] 18,000 C] 24,000 D] 20,000
11. In a town consisting of three localities A, B and C, the population of the three localities A, B and C are in the ratio 9 : 8 : 3. In locality A, 80% of the people are literate, in locality B, 30% of the people are illiterate. If 90% people in locality C are literate, find the percentage literacy in that town.
 A] 61.5% B] 78 % C] 75 % D] None of these
12. The population of a town increase by 5% annually frails present population is 64000. What will it be in 3 years' time?
 A] 72044 B] 74088 C] 75042 D] None of these
13. During the first year, the population of town increased by 4% and during the second year it 'diminished by 4%. If at the end of the second year its population was 24960, what was its population at the beginning of the first year?
 A] 24960 B] 25200 C] 24000 D] 25000
14. If 97% of the students are present in a class and 18 students are absent, find the total number of students in the class.
 A] 800 B] 600 C] 700 D] 575
15. A man saves 20% of his monthly salary. If on account of dearness of things he is to increase his monthly expenses by 20% he is only able to save Rs. 20 per month. What is the monthly salary?
 A] 400 B] 200 C] 500 D] 600
16. If boys make up 65% of a class that has 28 girls, the number of boys exceeds the number of girls by
 A] 52 B] 44 C] 24 D] 16

17. The price of petrol increased by 25% and therefore Alok reduced his consumption of petrol by 25%. By what % did his expenditure rise/fall?
 A] 6.25 % rise B] 8% fall C] 20% rise D] 6.25% fall
18. Let A and B be two solid spheres such that the surface area of B is 300% higher than the surface area of A. the volume of A is found to be k% lower than the volume of B. the value of k must be
 A] 85.5 B] 92.5 C] 90.5 D] 87.5
19. Out of the 75 students enrolled in the Economics class, 12% did not qualify to take the final examination on account of lack of attendance. Of those who qualified to take the test, 9.09% absented themselves from the exam. Two-third of those who took the exam passed the examination. 75% of those who passed secured a first class in the paper. How many students who pass the exam scored less than first class?
 A] 15 B] 10 C] 12 D] None of these
20. The price of a P&G product is collectively decided by five input factors viz. research, raw materials, labour, advertisements and transportation. The functional relationship of price with these factors is: $\text{Price} = (k \times \text{Research costs} \times \text{Raw material costs} \times \text{Labour costs} \times \text{Advertising cost} \times \text{Transportation cost})$ if there are respective changes of 10%, 20%, -20%, 25% and 50% in the five factors, then find the change in the price of product.
 A] 85% B] 95% C] 98% D] none of these
21. A mixture of milk and water measures 70 liters. It contains 10% water. How much water should be mixed with it so that the water may be 25% in the new mixture?
 A] 10 liters B] 12 liters C] 14 liters D] 15 liters
22. The tax on a commodity is diminished by 15% and its consumption increased by 10%. Find the decrease percent in the revenue derived from it.
 A] 6.5% B] 8.33% C] 9.11% D] 5.2%
23. In some quantity of ghee, 60% is pure ghee and 40% is vanaspati. If 10 kg of pure ghee is added, then the strength of vanaspati ghee becomes 20%. The original quantity was in kg:
 A] 10 B] 15 C] 20 D] 25
24. 600 students took the test on physics and chemistry. 35% students failed in physics and 45% students failed in chemistry and 40% of those who passed in chemistry also passed in physics, then how many students failed in both:
 A] 162 B] 138 C] 60 D] none
25. In a factory there are three types of Machines M1 , M2 and M3 which produces 25%, 35% and 40% of the total products respectively. M1, M2 and M3 produces 2% , 4% and 5% defective products, respectively. What is the percentage of non-defective products?

- A] 89% B] 97.1% C] 96.1% D] 86.1%
26. Each edge of a cube is increased by 20% then the percentage increase in surface area of the cube is :
- A] 144% B] 40% C] 44% D] 72.8%
27. A housewife saved Rs. 2.50 in buying an item on sale. If she spent Rs. 25 for the item, approximately how much percent she saved in the transaction ?
- A] 8 B] 9 C] 10 D] 11
28. Gaurav spends 30% of his monthly income on food articles, 40% of the remaining on conveyance and clothes and saves 50% of the remaining. If his monthly salary is Rs. 18,400, how much money does he save every month?
- A] 3864 B] 4903 C] 5849 D] 6789
29. Fresh fruit contains 68% water and dry fruit contains 20% water. How much dry fruit can be obtained from 100 kg of fresh fruits ?
- A] 20 B] 30 C] 40 D] 50
30. Out of a no. of electronic items, a person purchases 60% colored TVs 5% of these were found to be defective. The percentage of defective TVs in all is
- A] 3% B] 6% C] 12% D] can't be determined
31. An alloy contains the copper and aluminum in the ratio 7:4. While making the weapons from this alloy, 12% of the alloy get destroyed. If there are 12 kg of aluminum in the weapon, then the weight of the alloy required is :
- A] 48 kg B] 40kg C] 37.5 kg D] 14.4 kg

Dell computers has two branches : One in ohio and second in texas : The total no. of employees on ohio office grew this year by 25% to 750 but the ratio of male to female employee is same as in the previous year. The no. of employees in the Texas office grew this year by 9.09% to 1200. The ratio of male to female employees last year in texas office was 5:6 and the number of male employees in the ohio office was 20% less than that of texas office.

32. The total number of female employees this year in both the offices is:
A] 654 B] 546 C] 950 D] can't be determined
33. The total number of employees in both the offices last year was:
A] 1500 B] 1700 C] 1650 D] can't be determined
34. A shepherd had n goats in the year 2000. In 2001 the no. of goats increased by 40%. In 2002 the no. of goats declined to 70%. In 2003 the no. of goats grew by 30%. In 2004, he sold 10% goats, and then he had only 34398 goats. The percentage increase of the no. of goats in this duration was:
A] 14.66% B] 16.66% C] 20% D] 33.33%
35. In the above question number 34 in which year the no. of goats was minimum?
A] 2001 B] 2002 C] 2004 D] 2003