PERCENTAGE

Direction: Read the following questions carefully and choose the right answer.

1. A man distributes 10%, 18% and 22% of his salary into his three children who spend 40%, 60% and 25% of that amount respectively. The difference between the total amount left with the children and man is Rs. 1015. What is the salary of the man?

A. Rs. 6000 B. Rs. 4200 C. Rs. 4800 D. Rs. 5000 E. Rs. 5600

2. Salary of A is 37.5% of the total salary of A and B. B saves 60% of his salary and total savings of A and B is 50% of their total income. Their average expenditure is Rs 16000. What is the total salary of A and B?

A. Rs. 96000 B. Rs. 54000 C. Rs. 72000 D. Rs. 64000 E. Rs. 48000

3. In a class 25% of the students passed in both English and Hindi. 37.5% of the students failed in both the subjects while 60% students failed in Hindi. The difference between the students who passed in English and those who passed in Hindi is 15. What is the total number of students in class?

A. 180 B. 420 C. 360 D. 200 E. 240

4. Out of total students 100/3 % are in hostel A and remaining are in hostel B. If 20 students from hostel B are shifted to hostel A, then total students in hostel A becomes 50% of total students. If 20 students from hostel A are shifted to hostel B, then the total students in hostel A becomes what per cent of total students?

A. 26.34% B. 16.67% C. 12.75% D. 20.67 E. None of these

5. AB de Villiers smashes 86 runs against Australia in 16 balls. If he only scored in boundaries(fours and sixes) only, then find the maximum percent of runs he scored by hitting fours.

A.23.25% B. 26.4% C. 74.5% D. 28% E. None of these

- On a Big Billion day sale ,Google flagship mobile phone was available at a discount of 20% on Flipkart. The customers who are purchasing for the first time on Flipkart will get additional cashback of 10 % on the billing amount. Suraj being 1st time user of Flipkart purchases the mobile phone for Rs. 36000, find the actual cost price of the mobile phone. A. Rs. 50000 B. Rs. 45000 C. Rs. 52250 D. Rs. 47250 E. None of these
- 7. As per a company policy only 25% of the female employees and 20% of the male employees can hold the positions higher than level 2. If the ratio of female and male employees in the company is 3 : 2, then find the percentage of employees which are working below level 2..

11.7570 D.7770 E.7570 E.7570	A. 75%	B. 77%	C. 70%	D. 72%	E. 79%
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8. A dishonest salesman buys x% more grains than what he pays for ,while selling he uses counterfeit weight which measures 800 grams for every 1000 grams. If he sells the item at 10% above the cost price and earn an overall profit of 65%, then find the value of x.

A. 20% B.25% C. 35% D. 15% E. None of these

9. In an exam minimum qualifying marks for class IX and X are 30% and 45% respectively. It is known that total marks of each class are same and a boy of class X scored 1225; thereby failing by 125 marks. Find passing marks for class IX.

A. 900 B. 1200 C. 1500 D. 925 E. None of these

10. XYZ publication started with 2000 novels. The printing cost, packaging cost and delivery cost of each novel is Rs. 150, Rs. 20 and Rs. 50 respectively. If 40% of the novels are sold at 3/4th of the cost price, then how much percent above the cost price should the remaining novels be sold to get 20% profit on total expenditure?

A. 25% B. 20% C. 30% D. 40% E. 50%

11. A pickpocket stole the wallet of Mr. Jitender. Jitender remembers that before he lost his wallet he bought a notebook and a marker. He pays 1/5th of his money for buying the notebook, and of the remaining, he spends 25% on buying marker which is equal to Rs. 12. Find the amount of money lost by Mr. Jitender.

A. Rs. 125 B. Rs. 75 C. Rs. 100 D. Rs. 60 E. None of these

12. A survey was conducted in a village to know the reason of Deaths due to Critical Diseases. Number of people who died due to Diabetes were 20% of the total population. It was found that 2000 people died due to lung cancer. The people who died of Diabetes were 1200 more than those who died of Lung Cancer. If the people who died of lung cancer were 33.33 % of the people who smoke, then what percent of total population were smokers?

A. 40% B. 62.5% C. 37.5% D. 28.50% E. 32.50%

13. Rahim spent 10% of his yearly income on house rent, 14% on buying a new car, 12% on kids' school. He spent 15% and 10% of the remaining on groceries and vacation in Spain. If he saved Rs.518400 in the entire year, then find his monthly salary?

A. Rs. 90000 B. Rs. 108000 C. Rs. 98000 D. Rs. 136000 E. None of these

14. Two villages Ramnagar and Jamnagar had same population 2 years ago. Population of Ramnagar decreased at R% p.a. while population of Jamnagar increased at R% p.a. Today, the difference between their population is 1000R, then what was the population of any village 2 years ago?

15. The bank deposit of Raman is 100% more than that of Aman and 75% more than that of Jatin. Raman's deposits are what percent of the total deposits of Aman and Jatin together?

A. 93.67% B. 92.67% C. 93.33%s D. 91.33%s E. None of these

16. In a school, 40% students are in high school or above and rest are in junior high school or below. Of those who are in high school or above, ratio of boys to girls is 7 : 3, and those in junior high school or below have boys to girls in ratio 7 : 5. Ratio of boys in high school or above to junior high school or below:

A. 2 : 3 B. 4 : 3 C. 3 : 4 D. 4 : 5 E. None of these

17. In an examination of IBPS SO, Rahul scored 92% marks, Nishant scored 56% and Samarth scored 634 marks out of the total marks. Average marks scored by them was 643. What percentage of the total marks did Samarth get in the IBPS SO exam?

A. 66.23% B. 68.34% C. 72.45% D. 76.67% E. None of these

18. The speed ratio of A, B and C is 5 : 4 : 3. All of them start running together on a track and match their respective wrist watches when they finish the race. C completes race in 20 min. When B finishes the race the wrist watch of A shows 7:27PM. When C finishes the race his watch shows 7:30PM and wrist watch of B shows 7:16PM. At the start of the race what is the difference between the time in the wrist watch of A and B?

 A. 15 min
 B. 16 min
 C. 12 min
 D. 6 min
 E. None of these

19. The monthly salary of A is 20% more than the monthly salary of B. If the savings of A is Rs. 24000 which is 40% of the monthly salary of A, then find the monthly salary of B.

A. Rs. 54000 B. Rs. 66000 C. Rs. 60000 D. Rs. 50000 E. Rs. 55000

20. Monthly incomes of A and B are Rs. 42600 and Rs. 48500 respectively. A spends 29%, 17% and 42% of his total income in food, rent and other expenses respectively while B spends 24%, 19% and 38% of his total income in food, rent and other expenses respectively and rest of the amount are saved by both of them. Find the difference between the amount saved by A and B.

A. Rs. 4103 B. Rs. 4208 C. Rs. 4433 D. Rs. 4083 E. Rs. 4354

21. Four friends A, B, C and D went for dinner. A paid 40% of the bill. Of the remaining bill, B paid 50%. Of the remaining bill, C paid 60%. D paid the remaining Rs. 924. What is the difference (in Rs.) between the amount paid by A and C?.

22. Rajeev spends 40% of his monthly salary on rent; he spends 30% of the remaining on Shopping and 200/7% of the remaining on Electricity. He saves 50% of the remaining amount which when combined with his last month's savings which were 10% of the last month's salary amounts to Rs 1500. What is Rajeev's monthly salary?

A. Rs. 6000 B. Rs. 5000 C. Rs. 8000 D. Rs. 6800 E. None of these

- 23. Rajeev tells Aman and Kishor a two digit number. He then tells Aman to calculate 166.67% of the number and Kishor to find 66.67% of the number given. The end result of Aman is 3 more than that of Kishor. If by mistake Kishor had written the original number in reverse order, what was the number given by Rajeev?
 - A. 36 B. 54 C. 39 D. 27 E. None of these
- 24. The area covered by the hour hand of a wall clock between time 4 : 26 and 6 : 50 is what percent of the area covered by it in 15 hours?
 - A. 15% B. 14% C. 12% D. 16% E. None of these
- 25. A, B and C are three numbers with A > B > C. The average of the difference between A and B and the difference between B and C is equal to 10. The value of B is 1500% of the difference between B and C and 400% more than the difference between A and B. What is the value of B?
 - A.65 B. 70 C. 75 D. 95 E. None of these
- 26. Two friends A and B have some money in the ratio 4:3. If the money with A decreases by 17.5% and that with B increases by Rs 45, then the money with both of them becomes equal. What is the average of the money with them initially?

A.Rs. 525 B. Rs. 515 C. Rs. 435 D. Rs. 460 E. None of these

- 27. Nikhil got scores of five subjects Maths, Science, English, Hindi and Sanskrit. The score in hindi is equal to the average in Maths and Science and the score in English is 80% of the score in Hindi. The score in English is 200 and the average score is 240. What is the score in Sanskrit?
 - A.240 B. 250 C.270 D.265 E. None of these
- 28. In a village election between two candidates, the winner secured 70% of the total votes cast and won by a majority of 12000 votes. How many votes did the losing candidate get?

A. 4500	B. 9000	C. 7000	D. 6500	E. None of these
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29. Population of a village increased in first year by 20%, decreased in second year by 15% and again increased in third year by 10%. After three years population of the village is 106590. Find the initial population of the village.

A. 95000 B. 80000 C. 75000 D. 60000 E. None of these

30. In a town males and females are in the ratio 3 : 2. Out of males 25% are children and rest are adults. If the adult male population of the town is 8100, find the total population of the town .

A. 22000 B. 24000 C. 20000 D. 18000 E. None of these

31. In a class of 40 students and 10 teachers, each student got gifts that were 20% of total number of students and each teacher got gifts that were 15% of total number of students. How many gifts were there in total?

A. 360 B. 420 C. 300 D. 380 E. None of these

32. In an examination Tarang got 25% marks and failed by 64 marks. If he had got 40% marks he would have secured **32** marks more than the pass marks. Find the percentage of pass marks.

A. 224 marks B. 250 marks C. 150 marks D. 295 marks E. None of these

33. A company has 20 employees out of which 'x' employees are clerks and rests are officers. Average salary of all the employees in a company is Rs. 5300. Salary of an officer in the company is 275% more than the salary of a clerk in the company. Find the salary of all the clerks together if the number of officers in the company is 50% more than the number of clerks in the company.

A. Rs. 8000 B. Rs. 12000 C. Rs. 16000 D. Rs. 20000 E. None of these

34. Rahul got 20% more pocket money than his sister Amayra and Amayra got 20% more than her sister Pihu. If the total money received by all of them together is Rs. 5824, find how much pocket money did Pihu get.

A. Rs. 1800 B. Rs. 1550 C. Rs. 1750 D. Rs. 1600 E. Rs. 1200

35. There are two slabs of income tax, 9% tax for income up to 3lakh and 12.5% for income above 3 lakh. Arun tried to evade tax by hiding some of the income, to fall in the 9% tax slab. The amount hid by arun is 9/44 of the original taxable income. If arun paid Rs. 25,200 as tax, what is the original amount of tax he had to pay?

A. Rs. 35660 B. Rs. 44000 C. Rs. 31680 D. Rs. 40000 E. None of these

36. Mr. Sunil's monthly expenses are: 25% on food, 20% on clothing and 10% of the remaining on children's education. If he invests the remaining amount in two schemes

X and Y in the ratio 5 : 4 respectively. The expenditure on children's education is what percent of his investment in the scheme X?

A. 25% B. 20% C. 28% D. 30% E. 22%

37. After spending 30% salary in rent, 25% of the remaining in Electricity and 28.56% of the remaining on shopping, Gaurav puts the remaining amount at compound interest of 20% p.a for 2 years. The interest received is Rs 6600. What is the monthly salary of Gaurav?

A. Rs. 42000 B. Rs. 48000 C. Rs. 45000 D. Rs. 40000 E. None of these

38. Aman has some money left after spending 25%, 15% and 30% of monthly salary on rent, electricity and shopping respectively. The remaining money with Aman increases by 16.67% when a friend gives him Rs. 4500. What is the monthly salary of Aman?

A. Rs 95000 B. Rs. 82000 C. Rs. 90000 D. Rs. 85000 E. None of these

39. In a colony, consisting of 3 sectors A, B and C, the female population of the 3 sectors are in the ratio of 2 : 3 : 4 respectively. In sector A, 55% of the female are working, in sector B, 25% of the female are working and in sector C, 50% of the female are working. Find the percentage of non – working female in the colony.

A. 50.46%
B. 62.03%
C. 57.22%
D. 54.67%
E. None of these

40. Abhimanyu's monthly salary in 2014 was Rs. 32000. Due to his good performance, his monthly salary was increased by 20% and 10% in the year 2015 and 2016, respectively with respect to the previous year. Further, there was a provision of deducting 5% of the salary as tax if the salary crosses Rs 40000 in a month. Find the monthly salary of Abhimanyu in the year 2016 after deducing the tax.

A. Rs. 40128 B. Rs. 41256 C. Rs. 39566 D. Rs. 39976 E. None of these

41. Raman spends 20% of his dad's income on tuition fees, 30% on room rent, and half of the remaining on food. He spends Rs. ______ on medicine. He saves Rs. 1750, which is 35% of the remaining amount after spending on the tuition fees, room rent and food.

A. Rs. 3254 B. Rs.3256 C. Rs. 3255 D. Rs.3250 E. Rs. 3234

42. The number of boys in a school is 1500 more than that of girls. Total number of girls selected for inter – school championship is 195 more than that of boys. If the number of boys and the number of girls selected in the championship are 13% and 18% of their respective strength, then find the difference between number of boys and number of girls who have not been selected.

A. 1244 B.1695 C.2358 D.1879 E. None of these

43. A person gives x% of his salary in rent, 15% in electricity, (2x+4)% in shopping and rest are his savings. His savings are 140% more than his expenditure on rent. What is the

value of x?

A. 15 B. 12 C. 16 D. 9 E. 18

44. A person spends 20% of his salary on rent, 10% on shopping, saves 30% and the remaining he puts at compound interest of rate 12.5% p.a. for two years. If the interest received after two years is Rs. 6800, then what was the amount spent on shopping?

A. Rs. 6200 B. Rs. 5800 C. Rs. 7200 D. Rs. 6400 E. None of these

- **45.** The maximum marks of paper A, C, D and E are 50%, 75%, 60% and 125% respectively of the maximum marks of paper B. The score obtained in A, B, C, D and E is in the ratio 6 : 14 : 12 : 9 : 21. The total percentage score of A and B together is 60%. What is the aggregate percentage score of all the papers?
 - A. 70.65% B. 64.2% C. 62.58% D. 68.05% E. 58.45%
- 46. A man spends 40% of salary on rent, from the remaining salary 30% and 40% is spent on electricity and shopping respectively, and the remaining Rs. 14400 is his savings. What is the amount spent on rent?

A.Rs. 48000 B.Rs. 32000 C.Rs. 36000 D.Rs. 28000 E. None of these

47. A and B are two candidates in an election and a voter can vote for either A or B. Candidate A gets 66.67% of the votes got by candidate B. If only 90% of eligible voters cast their vote and B gets 64800 more votes than A, how many eligible voters were there?

A. 326000 B. 360000 C. 420000 D. 540000 E. 320000

48. Class Q has 100% more students than class P. Number of girls in class P is equal to number of boys in class Q. The percentage of girls is the same in both classes. What percentage of the student group are boys combining both the classes?

A. 33.33% B. 66.66% C. 40% D. 30% E. None of these

49. Raju bought a total of 560 kg of Wheat, rice and pulses in the ratio 3 : 4 : 1 respectively. After 60% of wheat, 45% of rice and 20% of pulses are sold, the total weight of the remaining items is what percent of the initial total weight of rice and pulses?

A. 84% B. 79% C. 86% D. 82% E. None of these

50. The bacterial growth, in an experiment, increases by 27% in the 1st year of observation and by 20% in the subsequent year, then the ratio of number of bacteria at the end of 1st year to the end of 2nd year is

A. 5 : 6 B. 6 : 5 C. 2 : 3 D. 3 : 2 E. None of these

ANSWERS

1	D	11	E	21	В	31	D	41	D
2	D	12	С	22	Α	32	Α	42	В
3	D	13	А	23	С	33	С	43	Α
4	В	14	С	24	D	34	D	44	D
5	Α	15	С	25	С	35	В	45	D
6	Α	16	D	26	Α	36	В	46	В
7	В	17	С	27	В	37	D	47	В
8	Α	18	В	28	В	38	С	48	Α
9	A	19	D	29	A	39	C	49	A
10	E	20	А	30	D	40	А	50	А