

PERCENTAGES

1. Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are

- A. 39, 30
- B. 41, 32
- C. 42, 33
- D. 43, 34

2. What percentage of numbers from 1 to 70 has 1 or 9 in the unit's digit?

- A. 1
- B. 14
- C. 20
- D. 21

3. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had:

- A. 588 apples
- B. 600 apples
- C. 672 apples
- D. 700 apples

4. If $A = x\%$ of y and $B = y\%$ of x , then which of the following is true?

- A. A is smaller than B.
- B. A is greater than B
- C. Relationship between A and B cannot be determined.
- D. A is equal to B

5. In a certain school, 20% of students are below 8 years of age. The number of students above 8 years of age is 48 more than $\frac{2}{3}$ rd of the total number of students of 8 years of age which is 48. What is the total number of students in the school?

- A. 72
- B. 80
- C. 120
- D. 100

6. Two numbers A and B are such that the sum of 5% of A and 4% of B is two-third of the sum of 6% of A and 8% of B. Find the ratio of A : B.

- A. 2 : 3
- B. 1 : 1
- C. 3 : 4
- D. 4 : 3

7. A student multiplied a number by $\frac{3}{5}$ instead of $\frac{5}{3}$.

What is the percentage error in the calculation?

- A. 34%
- B. 44%
- C. 54%
- D. 64%

8. Two tailors X and Y are paid a total of Rs. 550 per week by their employer. If X is paid 120 percent of the sum paid to Y, how much is Y paid per week?

- A. Rs. 200
- B. Rs. 250
- C. Rs. 300

D. None of these

9. Gauri went to the stationers and bought things worth Rs. 25, out of which 30 paise went on sales tax on taxable purchases. If the tax rate was 6%, then what was the cost of the tax free items?

A. Rs. 15

B. Rs. 15.70

C. Rs. 19.70

D. Rs. 20

10. Rajeev buys good worth Rs. 6650. He gets a rebate of 6% on it. After getting the rebate, he pays sales tax @ 10%. Find the amount he will have to pay for the goods.

A. Rs. 6876.10

B. Rs. 6999.20

C. Rs. 6654

D. Rs. 7000

11. The population of a town increased from 1,75,000 to 2,62,500 in a decade. The average percent increase of population per year is

A. 4.37%

B. 5%

C. 6%

D. 8.75%

12. 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

13. The value of a machine depreciates at the rate of 10% every year. It was purchased 3 years ago. If its present value is Rs. 8748, its purchase price was (**Anglo Eastern Shipping 2013**)

A Rs 10000

B Rs 12000

C Rs 14000

D Rs 16000

14. 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

15. 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

16. 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%

17. 405 sweets were distributed equally among children in such a way that the number of sweets

received by each child is 20% of the total number of children. How many sweets did each child receive ?

- A 9
- B 10
- C 11
- D 12

18. If 75% of a number is added to 75, then the result is the number itself. The number is :

- A 100
- B 200
- C 300
- D 400

19. In an election only two candidates contested 20% of the voters did not vote and 120 votes were declared as invalid. The winner got 200 votes more than his opponent thus he secured 41% votes of the total voters on the voter list. Percentage votes of the defeated candidate out of the total votes casted is

- A 47.5%
- B 41%
- C 38%
- D 45%

20. A number is decreased by 10% and then increased by 10%. The number so obtained is 10 less than the original number. What was the original number ?

- A 1000
- B 2000
- C 3000
- D 4000

21. The population of a town was 1,60,000 three years ago, If it increased by 3%, 2.5% and 5%

respectively in the last three years, then the present population in

A 155679

B 167890

C 179890

D 177366

22. In a History examination, the average for the entire class was 80 marks. If 10% of the students scored 95 marks and 20% scored 90 marks, what was the average marks of the remaining students of the class ?

A 25

B 50

C 75

D 100

23. In a competitive examination in State A, 6% candidates got selected from the total appeared candidates. State B had an equal number of candidates appeared and 7% candidates got selected with 80 more candidates got selected than A. What was the number of candidates appeared from each State?

A 4000

B 8000

C 12000

D 16000

24. If the price of sugar rises from Rs. 6 per kg to Rs. 7.50 per kg, a person, to have no increase in his expenditure on sugar, will have to reduce his consumption of sugar by (Steel Strips Pvt Ltd 2013)

A 15

B 20

C 25

D 30

25. If x is 80% of y , then what percent of $2x$ is y ?

A 65.5 %

B 64.5 %

C 63.5 %

D 62.5 %

26. 1100 boys and 700 girls are examined in a test; 42% of the boys and 30% of the girls pass. The percentage of the total who failed is :

A) 58

B) $62 \frac{2}{3}$

C) 64

D) 67

27. If the length of a rectangle is increased by 10% and the area is unchanged , then its corresponding breadth must be decreased by?

A. $\frac{110}{11}$

B. $\frac{120}{11}$

C. $\frac{100}{11}$

D. $\frac{99}{11}$

28. 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 %

29. The difference of two numbers is 20% of the larger number, if the smaller number is 20, then

the larger number is :

A 15

B 25

C 35

D 45

30. A salesman gets commission on total sales at 9%. If the sale is exceeded Rs.10, 000 he gets an additional commission as bonus of 3% on the excess of sales over Rs.10, 000. If he gets total commission of Rs.1380, then the bonus he received is (**Amazon 2014**)

A Rs.180

B Rs.120

C Rs.480

D data insufficient

31. A bag contains 600 coins of 25 p denomination and 1200 coins of 50 p denominations. If 12% of 25 p coins and 24% of 50 p coins are removed, the percentage of money removed from the bag is nearly (**CVENT 2015**)

A 21.6 %

B 15.3 %

C 14.6 %

D 12.5 %

32. Entry fee in an exhibition was Rs. 1. Later, this was reduced by 25% which increased the sale by 20%. The percentage increase in the number of visitors is :

A 20 %

B 40 %

C 60 %

D 80 %

33. In a City, 35% of the population is composed of migrants, 20% of whom are from rural

areas. Of the local population, 48% is female while this figure for rural and urban migrants is 30% and 40% respectively. If the total population of the city is 728400, what is its female population?

A 324138

B 349680

C 509940

D None of these

34. 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%

35. 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 (**DI Media House pvt Ltd 2013**)

A 10 kg

B 15 kg

C 20 kg

D 25 kg

36. The sum of the number of boys and girls in a school is 150. if the number of boys is x , then the number of girls becomes $x\%$ of the total number of students. The number of boys is :

A 60

B 70

C 80

D 90

37. The ratio of earnings of A and B is 4:5. If the earnings of A increase by 20% and the earnings of B decrease by 20%, the new ratio of their earnings becomes 6:5. What are A's earnings? (**Amazon 2014**)

A Rs.22,000

B Rs.27,500

C Rs. 26,400

D Cannot be determined

38. An agent, gets a commission of 2.5% on the sales of cloth. If on a certain day, he gets Rs. 12.50 as commission, the cloth sold through him on that day is worth

A 300

B 500

C 700

D 900

39. The price of a cycle is reduced by 25 per cent. The new price is reduced by a further 20 per cent. The two reductions together are equal to a single reduction of

A 45%

B 40%

C 35%

D 32.5%

40. What percent decrease in salaries would exactly cancel out the 20 percent increase ?

A $(16 + \frac{2}{3})\%$

B $(15 + \frac{2}{3})\%$

C $(14 + \frac{1}{3})\%$

D $(13 + 4/5)\%$

41. While purchasing one item costing Rs. 400, I had to pay the sales tax at 7% and on another costing Rs. 6400, the sales tax was 9%. What percent of the sales tax I had to pay, taking the two items together on an average? (**Hyundai Construction 2014**)

A $(8 + 15/17) \%$

B $(2 + 13/17) \%$

C $(3 + 2/17) \%$

D $(5 + 13/12) \%$

42. A district has 64000 inhabitants. If the population increases at the rate of $2 \frac{1}{2} \%$ per annum, then the number of inhabitants at the end of 3 years will be :

A 65380

B 68921

C 70987

D 72345

43. In an examination, 34% of the students failed in Mathematics and 42% failed in English. If 20% of the students failed in both the subjects, then the percentage of students who passed in both the subjects was :

A 34 %

B 44 %

C 54 %

D 64 %

44. A number X is mistakenly divided by 10 instead of being multiplied by 10. What is the percentage error in the result?

A -99%

B +99%

C -100%

D +100%

45. If x is 90% of Y , what percent of x is y ?

A. 111.111%

B. 133.333%

C. 99.99%

D. 120%

46. Helpers are needed to prepare for the fete. Each helper can make either 2 large cakes or 35 small cakes per hour. The kitchen is available for 3 hours and 20 large cakes and 700 small cakes are needed. How many helpers are required? (**Greyb Services Pvt Ltd 2015**)

A) 10

B) 15

C) 20

D) 25

47. Lagaan is levied on the 60% of the cultivated land. The revenue department collected total Rs. 3,84,000 through the lagaan from the village of Sukhiya. Sukhiya, a very rich farmer , paid only Rs.480 as lagaan. The percentage of total land of Sukhiya over the total taxable land of the village is:

A) 0.15%

B) 15%

C) 0.125%

D) None of these

48. A Shopkeeper charges sales tax of $x\%$ upto Rs.2,000 and above it he charges $y\%$. A customer pays total tax of Rs 320, when he purchases the goods worth Rs. 6,000 and he pay's the total tax of Rs. 680 for the goods worth Rs. 12,000. The value of $(x-y)$ is:

A) 0

B) -2

C) -4

D) 5

49. 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%

50. In an examination a candidate got 30% marks and failed by 30 marks. If the passing marks are 60% of the total marks, then the maximum marks will be (**Indofarm 2013**)

A 450

B 600

C 300

D 100

51. Abhinav scores 80% in physics and 66% in chemistry and the maximum marks of both the papers are 100. what percent does he score in maths which is of 200 marks, if he scores 80% marks in all the three subjects:

A 74%

B 84%

C 87%

D 83%

52. 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%

53. A man lost half of its initial amount in the gambling after playing 3 rounds. The rule of gambling is that if he wins he will receive Rs. 100, but he has to give 50% of the total amount after each round. Luckily he won all the three rounds. The initial amount with which he had started the gambling was

A $500/3$

B $700/3$

C 300

D 600

54. The average of a set of whole numbers is 27.2. When the 20% of the elements are eliminated from the set of numbers then the average become 34. The number of elements in the new set of numbers can be :

A 27

B 35

C 52

D 63

55. 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, then he had only 34,398 goats. The percentage increase of the no.of goats in this duration was (**Nipum Planners & Infrastructure Pvt Ltd 2014**)

A 14.66%

B 16.66%

C 20%

D 33.33%

56. Two numbers are less than third number by 30% and 37% respectively. How much percent is the second number less than by the first? (**Zamil Ac 2016**)

- A 8%
- B 9%
- C 10%
- D 11%

57. If number x is 10% less than another number y and y is 10% more than 125, then find out the value of x

- A 123.55
- B 123.65
- C 123.75
- D 123.85

58. Raman's salary was decreased by 50% and subsequently increased by 50%. How much percent does he lose ?

- A 75
- B 65
- C 45
- D 25

59. If 15% of 40 is greater than 25% of a number by 2, the number is

- | | |
|------|------|
| A 14 | B 16 |
| C 18 | D 20 |

60. One fourth of one third of two fifth of a number is 15. What will be 40% of that number

- | | |
|-------|-------|
| A 140 | B 150 |
| C 180 | D 200 |