

Nesto Institute

Percentage & Profit and loss Test

1. A batsman scored 110 runs which included 3 boundaries and 8 sixes. What percent of his total score did he make by running between the wickets?
- A. 45%
- B. $45\frac{5}{11}\%$
- C. $54\frac{6}{11}\%$
- D. 55%
2. 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
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. What percentage of numbers from 1 to 70 have 1 or 9 in the unit's digit?
- A. 1
- B. 14
- C. 20
- D. 21
5. 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. If x is smaller than y , then A is greater than B.
- E. None of these
6. If 20% of $a = b$, then $b\%$ of 20 is the same as:
- A. 4% of a
- B. 5% of a
- C. 20% of a
- D. None of these
7. In a certain school, 20% of students are below 8 years of age. The number of students above 8 years of age is $\frac{2}{3}$ of the 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. 150
- E. 100

8. 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
9. A student multiplied a number $\frac{3}{5}$ instead $\frac{5}{3}$ by $\frac{3}{5}$ of $\frac{5}{3}$. What is the percentage error in the calculation?
- A. 34%
B. 44%
C. 54%
D. 64%
10. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was:
- A. 2700
B. 2900
C. 3000
D. 3100
11. Three candidates contested an election and received 1136, 7636 and 11628 votes respectively. What percentage of the total votes did the winning candidate get?
- A. 57%
B. 60%
C. 65%
D. 90%
12. 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
13. 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
14. 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
15. 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%

16. Alfred buys an old scooter for Rs. 4700 and spends Rs. 800 on its repairs. If he sells the scooter for Rs. 5800, his gain percent is:

A. $4\frac{4}{7}\%$

B. $5\frac{5}{11}\%$

C. 10%

D. 12%

17. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:

A. 15

B. 16

C. 18

D. 25

18. If selling price is doubled, the profit triples. Find the profit percent.

A. $66\frac{2}{3}$

B. 100

C. $105\frac{1}{3}$

D. 120

19. In a certain store, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit?

A. 30%

B. 70%

C. 100%

D. 250%

20. A vendor bought toffees at 6 for a rupee. How many for a rupee must he sell to gain 20%?

A. 3

B. 4

C. 5

D. 6

21. The percentage profit earned by selling an article for Rs. 1920 is equal to the percentage loss incurred by selling the same article for Rs. 1280. At what price should the article be sold to make 25% profit?

A. Rs. 2000

B. Rs. 2200

C. Rs. 2400

D. Data inadequate

22. A shopkeeper expects a gain of 22.5% on his cost price. If in a week, his sale was of Rs. 392, what was his profit?

A. Rs. 18.20

B. Rs. 70

C. Rs. 72

D. Rs. 88.25

23. A man buys a cycle for Rs. 1400 and sells it at a loss of 15%. What is the selling price of the cycle?

A. Rs. 1090

B. Rs. 1160

C. Rs. 1190

D. Rs. 1202

24. Sam purchased 20 dozens of toys at the rate of Rs. 375 per dozen. He sold each one of them at the rate of Rs. 33. What was his percentage profit?

A. 3.5

B. 4.5

C. 5.6

D. 6.5

25. Some articles were bought at 6 articles for Rs. 5 and sold at 5 articles for Rs. 6. Gain percent is:

A. 30%

B. $33\frac{1}{3}\%$

C. 35%

D. 44%

26. On selling 17 balls at Rs. 720, there is a loss equal to the cost price of 5 balls. The cost price of a ball is:

A. Rs. 45

B. Rs. 50

C. Rs. 55

D. Rs. 60

27. When a plot is sold for Rs. 18,700, the owner loses 15%. At what price must that plot be sold in order to gain 15%?

A. Rs. 21,000

B. Rs. 22,500

C. Rs. 25,300

D. Rs. 25,800

28. 100 oranges are bought at the rate of Rs. 350 and sold at the rate of Rs. 48 per dozen. The percentage of profit or loss is:

A. $14\frac{2}{7}\%$ gain

B. 15% gain

C. $14\frac{2}{7}\%$ loss

D. 15% loss

29. A shopkeeper sells one transistor for Rs. 840 at a gain of 20% and another for Rs. 960 at a loss of 4%. His total gain or loss percent is:

A. $5\frac{15}{17}\%$ loss

B. $5\frac{15}{17}\%$ gain

C. $6\frac{2}{3}\%$ gain

D. None of these

30. A trader mixes 26 kg of rice at Rs. 20 per kg with 30 kg of rice of other variety at Rs. 36 per kg and sells the mixture at Rs. 30 per kg. His profit percent is:

A. No profit, no loss

B. 5%

C. 8%

D. 10%

E. None of these

31. A shopkeeper sells some articles at the profit of 25% on the original price. What is the exact amount of profit? To find the answer, which of the following information given in Statements I and II is/are necessary?

I. Sale price of the article

II. Number of articles sold

- A. Only I is necessary
- B. Only II is necessary
- C. Either I or II is necessary
- D. Both I and II are necessary
- E. None of these

32. A shopkeeper sells some toys at Rs. 250 each. What percent profit does he make? To find the answer, which of the following information given in Statements I and II is/are necessary?

I. Number of toys sold.

II. Cost price of each toy.

- A. Only I is necessary
- B. Only II is necessary
- C. Both I and II are necessary
- D. Either I or II is necessary
- E. None of these

33. A man mixes two types of rice (X and Y) and sells the mixture at the rate of Rs. 17 per kg. Find his profit percentage.

I. The rate of X is Rs. 20 per kg.

II. The rate of Y is Rs. 13 per kg.

- A. I alone sufficient while II alone not sufficient to answer
- B. II alone sufficient while I alone not sufficient to answer
- C. Either I or II alone sufficient to answer
- D. Both I and II are not sufficient to answer
- E. Both I and II are necessary to answer

34. By selling a product with 20% profit, how much profit was earned?

I. The difference between cost and selling price is Rs. 40.

II. The selling price is 120 percent of the cost price.

- A. I alone sufficient while II alone not sufficient to answer
- B. II alone sufficient while I alone not sufficient to answer
- C. Either I or II alone sufficient to answer
- D. Both I and II are not sufficient to answer

35. By selling an article what is the profit percent gained?

I. 5% discount is given on list price.

II. If discount is not given, 20% profit is gained.

III. The cost price of the articles is Rs. 5000.

- A. Only I and II
- B. Only II and III

C. Only I and III

D. All I, II and III

E. None of these

36. What was the percentage of discount given?

I. 23.5% profit was earned by selling an almirah for Rs. 12,350.

II. If there were no discount, the earned profit would have been 30%.

III. The cost price of the almirah was Rs. 10,000.

A. Only I and II

B. Only II and III

C. Only I and III

D. Any two of the three

E. None of these

37. What is the percent profit earned by the shopkeeper on selling the articles in his shop?

I. Labeled price of the articles sold was 130% of the cost price.

II. Cost price of each article was Rs. 550.

III. A discount of 10% on labeled price was offered.

A. Only I

B. Only II

C. I and III

D. All the three are required

E. Question cannot be answer even with information in all the three statements.