

Assignment 1

2. The length of a rectangle increases by 20% and the breadth by 30%. Then the perimeter of the rectangle will increase by.

- a. 56% b. 25% c. $22\frac{2}{3}\%$ **d. data inadequate** e. None of these

3. In a company there are 75% skilled workers and remaining are unskilled. The 80% of skilled workers and 20% of unskilled workers are permanent. If the number of temporary workers is 126, what is the number of total workers ?

- a. 480 b. 510 **c. 380** d. 377 e. None of these

4. If the height of a triangle is decreased by 40% and its base is increased by 40%, what will be the effect on its area?

- a. No change b. 8% dec **C. 16% dec** d. 16% increases e. 8% increases

5. The population of a town is 123,456,789. It increases by 10% during the first year, 20% during the second year and 30% during the third year. What is the average percent increase during the three years?

- a. 20% b. $23\frac{11}{15}\%$ **c. $23\frac{13}{15}\%$** d. $26\frac{2}{3}\%$ e. None of these

6. The monthly income and monthly expenditure of a person were 13500 and 9000 respectively. In the next year his income is increased by 14% while his expenditure is increased by 7%. The percentage increase in his savings is

- (a) 7% (b) 21% **(c) 28%** (d) 35% (e) None of these

7. 60=? % of 400

- a. 6 (b) 12 (c) 20 **(d) 15** (e) None of these

8. 40% of ?=240

- (a) 60 (b) 6000 (c) 960 **(d) 600** (e) None of these

9. 23% of 8040+ 42% of 545= ?% of 3000

- (a) 56.17 (b) 63.54 (c) 71.04 **(d) 69.27** (e) None of these

10. Sunil decided to donate 5% of his salary. On the day of donation he changed his mind and donated 1687.50, which was 75% of what he had decided earlier. How much is Sunil's salary?

- (a) 37500 **(b) 45000** (c) 33750 (d) Cannot be determined (e) None of these

11. Suresh gave 40% of his income to his wife. He gave 25% of the remaining amount to his son. Of the remaining amount he spent 60% on education. Now the amount with him is 2700. What is the amount he gave to his wife?

- (a) 4000 (b) 5000 (c) 8000 **(d) 6000**

12. In an examination 70% of the candidates passed in English, 80% passed in Mathematics, 10% failed in both the subjects. If 144 candidates passed in both, the total number of candidates was

- (a) 125 (b) 200 **(c) 240** (d) 375

13. About 8% of the voters in an election did not cast their votes. In this election, there were only two candidates. The winner by obtaining 48% of the total votes defeated his contestant by 1100 votes. The total number of voters in the election was

- (a) 21000 (b) 23500 (c) 22000 **(d) 27500**

14. If all sides of a hexagon are increased by 7%, find the % increase in its area.

- (a) 42.49% (b) 32.14% (c) 25.7% **(d) 14.49%** (e) None of these

15. Anil's monthly income is 30% more than Ashok's. Ashok's monthly income is 10% less than Manoj's. If the difference between the monthly income of Anil and Manoj is 1360, what is the monthly income of Ashok?

- (a) 8100 (b) 10430 (c) 9000 (d) Data inadequate **(e) None of these**

16. The 75% of a number is 380 more than 35% of the same number. What is 20% of that number?

- (a) 190** (b) 195.5 (c) 189.5 (d) 180 (e) None of these

17. The length of a rectangle is increased by 30% and the breadth by 20%. Then the perimeter of the rectangle will increase by what percent.

- (a) 56% (b) 25% **(c) 26%** (d) Data inadequate (e) None of these

18. Two litres of water evaporate from 10 litres of a solution containing 10% salt. The percentage of salt in the remaining solution is

- (a) 12% **(b) 12.5%** (c) 8% (d) 8.5% (e) None of these

19. A speaks truth in 80% of the cases and B in 90% of the cases. Find the percentage when they contradict each other in describing the same facts.

- (a) 25% **(b) 26%** (c) 30% (d) 35% (e) None of these

20. 125% of 320 + ?% of 125 = 440

- (a) 46 (b) 42 (c) 50 **(d) 32** (e) None of these

21. In a class 70% of the students read Hindi 40% of the students are boys and 20% of the girls do not read Hindi. Then what percentage of boys will read Hindi?

- (a) 16% (b) 22% **(c) 55%** (d) 48% (e) Can't be determined

22. If the height of a triangle is decreased by 40% and its base is increased by 30%, what will be the effect on the area?

- (a) Decrease by 22%** (b) Increase by 22% (c) Decrease by 2% (d) Increase by 2%
(e) None of these

23. Evaluate 28% of 450 + 45% of 280.

- (a) 225 **(b) 252** (c) 525 (d) 522

24. When the price of a product was decreased by 10%, the number sold increased by 30%. What was the effect on the total revenue?

- (a) 20% (b) 18% **(c) 17%** (d) -10%

25. The salary of a person was reduced by 10%. By what per cent should his reduced salary be raised so as to bring it at par with his original salary?

- (a) 10% (b) 9% **(c) 11.11%** (d) 9.99%

26. During one year, the population of a town was increased by 5% and during the next year, the population decreased by 5%. If the total population is 9975 at the end of the second year, then what was the population size in the beginning of the first year?

- (a) 8500 (b) 9000 **(c) 9500** (d) 10000

27. 3.5 can be expressed in terms of percentage as:

- (a) 0.35% (b) 3.5% (c) 35% **(d) 350%**

28. $88\% \text{ of } 370 + 24\% \text{ of } 210 = ?$

- (a) 256 (b) 258 (c) 268 (d) 358 **e. None**

29. $860\% \text{ of } 50 + 50\% \text{ of } 860 = ?$

- (a) 430 (b) 516 **(c) 860** (d) 960

30. $45\% \text{ of } 750 - 25\% \text{ of } 480 = ?$

- (a) 216 **(b) 217.50** (c) 236.50 (d) 245
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Assignment 02

1. A trader sells rice at a profit of 5% and uses a weight which is 25% less. Find the total percentage gain.

- (a) 20% (b) 30% **(c) 40%** (d) 50% (e) None of these

2. A person purchases 8 pens for 10 and sells 10 pens for 8. How much profit or loss does he make?

- (a) 30% gain **(b) 30% loss** (c) 36% gain (d) 36% loss (e) None of these

3. A shopkeeper buys an article at 8 for 16 and sells them at 9 for 20. What is his gain or loss percent?

- (a) 10% loss (b) 10% gain **(c) $11\frac{1}{9}\%$ gain** (d) $11\frac{1}{9}\%$ loss (e) None of these

4. A person bought an article for 240. For how much should he sell it so as to lose 20%?

- (a) 120 (b) 180 (c) 240 **(d) 192** (e) None of these

5. By selling an article for 384, a trader gains 20%. Find the cost price of article.

- (a) 160 (b) 240 **(c) 320** (d) 480 (e) None of these

6. A sells an article to B at a profit of 20% and B sells it to C at a loss of 10%. If C pays 540 for it, at what price did A buy?

- (a) 400 **(b) 500** (c) 600 (d) 700 (e) None of these

7. A man sold a cow at a loss of 12%. If he had been able to sell it at a gain of 6%, it would have fetched 72 more than it did. What was the cost price?

- (a) 300 (b) 500 **(c) 400** (d) 600 (e) None of these

8. An article is sold for 4950 at a gain of 10%. What would have been the gain or loss percent if it had been sold for 4275?

- (a) 10% gain (b) 10% loss (c) 5% gain **(d) 5% loss** (e) None of these

9. A machine is sold at a profit of 15%. Had it been sold for 540 more 24% would have been gained. Find the cost price.

- (a) 4800 (b) 5400 **(c) 6000** (d) 6400 (e) None of these

10. A person sold a radio at a loss of 5%. Had he sold it for 210 more, he would have gained 25%. For what value should he sell it in order to gain 35%?

- (a) 645 (b) 954 (c) 654 **(d) 945** (e) None of these

11. An article is sold at a profit of 20%. If both the cost price and selling price are 150 less, profit would be 5% more. Find the cost price.

- (a) 750** (b) 650 (c) 950 (d) 850 (e) None of these

12. A trader sells his table at a profit of 15% and the chair at a loss of $7\frac{1}{2}\%$, but on the whole he gains 50. If he sells the table at a loss of $7\frac{1}{2}\%$, and chair at a profit of 15%, then he neither gains nor loses. Find the cost price of the table

- a. 5000/9 **b. 4000/9** c. 4400/9 d. 5300/9 e. None of these

13. A vendor started selling vegetables at 10 per kg, but couldn't find buyers at this rate. So, he reduced the price to 8.10/kg, but uses a faulty weight of 900 g for 1 kg. Find the per cent change in the actual price or loss.

- (a) 5% **(b) 10%** (c) 15% (d) 20% (e) None of these

14. The cost price of 6 pens is equal to the selling price of 4 pens. Find the profit per cent.

- (a) 25% (b) 60% **(c) 50%** (d) 80% (e) None of these

15. If cost price of 20 tables is equal to selling price of 25 tables, find the loss%

- (a) 10% **(b) 20%** (c) 30% (d) 40% (e) None of these

16. A man sells an article at a loss of 5%. If he had bought it at 20% more and sold it for 115 less, he would have made a loss of 40%. Find the cost price of the article.

- (a) 400 (b) 450 **(c) 500** (d) 600 (e) None of these

17. When Ram sold his book for 255 he made a loss of 15%. For how much he should have sold it if he wanted to make a profit of 5%?

- (a) 275 **(b) 315** (c) 295 (d) 335 (e) None of these

18. A man invests 21,000 in shares of a company. He sells one-third of total shares at a profit of 10%. But the remaining shares he has to sell at 5% loss. Find his overall profit or loss%.

- (a) 10% profit (b) 10% loss **(c) No profit no loss** (d) 5% loss (e) None of these

19. A man buys 100 kg of sugar for 2400. He sold $\frac{1}{4}$ th of the stock at a loss of 5%. At what per cent profit should he sell the remaining stock so as to make an overall profit of 20% on the whole transaction?

- (a) 25% b. $27\frac{1}{3}\%$ (c) 28% **d. $28\frac{1}{3}\%$** (e) None of these

20. A man buys 300 dozen of bananas for 3,600. He sold $\frac{1}{3}$ rd of the stock at a loss of 10% and the remaining $\frac{2}{3}$ rd stock at a gain of 10%. Find his overall percent profit or loss.

- a. $10\frac{2}{3}\%$ gain** b. $10\frac{1}{3}\%$ loss c. $14\frac{2}{3}\%$ loss d. $14\frac{1}{3}\%$ gain
(e) None of these

21. A shopkeeper mixes 20 kg of rice which cost him 5 per kg with 35 kg of rice which cost him 7 per kg. Then he sells the mixture at 76.5 per kg. Find his total profit and percent profit.

- a. 17,5(41/69)% b. 15,4(47/69)% c. 12.5,3(43/69) d. 10,2(37/69)

(e) None of these

22. A shopkeeper sold an article offering a discount of 5% and earned a profit of 23.5%. What would have been the percentage of profit earned if no discount was offered?

- (a) 24.5 (b) 28.5 **(c) 30** (d) Data inadequate (e) None of these

23. The labelled price of a cupboard is 6500. The shopkeeper sold it by giving 5% discount on the labelled price and earned a profit of 15%. What approximately is the cost price of the cupboard?

- (a) 5000 **(b) 5350** (c) 5600 (d) 5800 (e) 6000

24. A trader marked the selling price of an article at 10% above the cost price. At the time of selling, he allows certain discount and suffers a loss of 1%. He allowed a discount of

- (a) 9% **(b) 10%** (c) 10.5% (d) 11%

25. At what price should a shopkeeper mark a radio that costs him 1200 in order that he may offer a discount of 20% on the marked price and still make a profit of 25% ?

- (a) 1675 **(b) 1875** (c) 1900 (d) 2025 (e) None of these

26. By selling an umbrella for 300, a shopkeeper gains 20%. During a clearance sale, the shopkeeper allows a discount of 10% on the marked price. His gain percent during the sale is

- (a) 7 (b) 7.5 **(c) 8** (d) 9