

## Percentage test

**Instruction:** In the following questions, select the correct choice among the alternatives given below the question.

1. **Two successive discounts of 8% and 12% are equal to a single discount of:**  
(a) 20%                      (b) 19.04%                      (c) 20.36%                      (d) 22%
2. **P's income has increased by 10% over last year and will be 20% higher next year. If his last year's income is Rs. 7,00 per month, what will it be next year?**  
(a) Rs. 9240                      (b) Rs. 7500                      (c) Rs. 9000                      (d) Rs. 7850
3. **A mixture contains sand and gravel in the ratio 1: 4. The sand has 20% impurity. If total mixture weights 10 kg, how much impurity is there? (Consider that gravel has no impurity).**  
(a) 300 g                      (b) 450 g                      (c) 400 g                      (d) 500 g
4. **The population of a city is estimated to be 4,32,000 after 2 years. If the population growth is 20% per annum. What is the current population?**  
(a) 3,10,000                      (b) 2,85,000                      (c) 3,80,000  
(d) 3,00,000
5. **The price of a house increased by 25% after 10 years, reduces by 25% during the subsequent 10 years. If the present cost is Rs. 10 lakh, what will be its cost after 20 years?**  
(a) Rs. 9,37,500                      (b) Rs. 9,00,000  
(c) Rs. 8,50,000                      (d) Rs. 7,25,000
6. **The price of a product of a company increases by 10% and the turnover increase by 10%. What is the change in quantity sold?**  
(a) 10%                      (b) 8%                      (c) 20%  
(d) no change
7. **An alloy contains 10g copper, 20g tin and 20g silver. What is the percentage of copper in the alloy?**  
(a) 20%                      (b) 25%                      (c) 30%  
(d) 11%
8. **The price of a television includes the manufacturing cost, 10% sales tax and 10% profit. What is the manufacturing cost, if the price is Rs. 14,400? (Sales tax and profit are to be calculated on manufacturing cost.)**

- (a) 10, 000            (b) 12, 000            (c) 12, 500            (d) 9, 000
9. A class has girls and boys in the ratio 4:5 among the girls, the ratio of mathematics to physics students in 3: 1. If the ratio of mathematics and physics students in the entire class is 3:2. What percentage of class comprises girls studying mathematics?
- (a) 33.3%            (b) 30%            (c) 25%            (d) 18%
10. Asha's income is Rs. 12, 000 per month. She pays 20% tax on monthly income above Rs. 2, 000 and she spends 30% of the remaining income. How much does she save annually?
- (a) 70, 000            (b) 60, 000            (c) 84, 000            (d) 50, 000
11. A man's income is increased by Rs. 1200 and at the same time, the rate of tax to be paid is reduced from 12% to 10%. He now pays the same amount of tax as before calculate the man's increased income.
- (a) Rs. 7000            (b) Rs. 6500            (c) Rs. 7200            (d) Rs. 8000
12. If 10% of an electricity bill is deducted, Rs. 45 is still to be paid. How much was the bill?
- (a) Rs. 50            (b) Rs. 40            (c) Rs. 35            (d) Rs. 54
13. The tax on a commodity is diminished by 15% and its consumption increased by 15%. Find the % decrease in the revenue collected from it
- (a) 2%            (b) 2.5%            (c) 2.25%            (d) 2.75%
14. A reduction of Rs. 2 per kg enables a man to purchase 4 kg more sugar for Rs. 16. Find the original price of sugar.
- (a) Rs. 4 per kg            (b) Rs. 6 per kg            (c) Rs. 3 per kg  
(d) Rs. 4.5 per kg
15. A reduction of 25% in the price of rice, enables a person to buy 5 kg more for Rs. 120. Find the original price of rice per kg.
- (a) Rs. 8            (b) Rs. 10            (c) Rs. 12            (d) Rs. 15
16. A litre of water evaporates from 6 litres of sea water containing 4% salt. Find the % of salt in the remaining solution.
- (a)  $5\frac{1}{2}\%$             (b)  $3\frac{1}{2}\%$             (c) 3%            (d)  $4\frac{4}{5}\%$
17. Two numbers are 20% and 25% less than the third number. How much % is the second number less than the first?

(a)  $5\frac{4}{5}\%$

(b)  $\frac{20}{3}\%$

(c)  $6\frac{1}{2}\%$

(d)  $6\frac{1}{4}\%$

**18. Due to increase of 30% in the price of a color T.V, the sale is reduced by 40%, and then what will be the % change in income?**

(a) 10% increase

(b) 10% decrease

(c) 35% decrease

(d) 22% decrease

**19. If the length of rectangle is decreased by 60% and the width is increased by 30%, then what will be the % change in the area of the rectangle?**

(a) 30% decrease

(b) 45% decrease

(c) 48 % decrease

(d) 48% increase

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

(a) 40%

(b) 50%

(c) 80%

(d) 70%

**Answers to the above questions**

Questions no.	Answers
1.	(b)
2.	(a)
3.	(c)
4.	(d)
5.	(a)
6.	(d)
7.	(a)
8.	(b)
9.	(a)
10.	(c)
11.	(c)
12.	(a)
13.	(c)
14.	(a)
15.	(a)
16.	(d)
17.	(d)
18.	(d)

19.	(c)
20.	(c)

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