

Percentage and Ratios

1. 48 is 32% of which number?
2. What is 25% of 30% of 800?
3. A number when increased by 18% gives 236. Find the number.
4. A number when decreased by 20% gives 80. Find the number.
5. Divide ₹350 among P, Q and R such that P gets 50% of what Q gets and Q gets 50% of what R gets.
6. A number is increased by 10% and then decreased by 10%. Find the net change in the number. Also find the % change.
7. If the difference between 75% of a number and 60% of the same number is 82.5, then find 10% of that number.
8. The ratio of boys and girls in a class is 5:3. If 16% of boys and 8% of girls failed in an examination. If the total strength of the class is 40, then find the number of boys and girls who passed.

Profit and Loss/CP-SP/Increase-decrease %

9. If selling an article for ₹820 causes 10% loss on the selling price, then find its cost price.
10. If the profit earned on selling an article for ₹810 is the same as loss on selling it for ₹530, then find the cost price of the article.
11. If the selling price of 10 rulers is the same as the cost price of 15 rulers, then find the profit percentage.
12. Some articles are bought at 2 for ₹15 and sold at 3 for ₹25. Find the gain percentage.
13. By selling a speaker for ₹768, a man loses 20%. In order to gain 20%, how much should he sell the speaker?
14. An Air-Conditioner (AC) has a marked price of ₹38000. There are 2 options given for the customer.
 - a. Selling Price is the same ₹38000 but with attractive gifts worth ₹3000 (or)
 - b. Discount of 8% on the marked price but no free gifts.Which offer is better?
15. If a mattress is marked for ₹7500 and is available at two successive discounts of 10% and 20%, find the amount to be paid by the customer.

Simple/Compound Interest

16. A principal becomes ₹2028 in 2 years at 4% p.a compound interest. Find the principal.
17. In how many years will ₹3375 become ₹4096 at 13 % p.a if the interest is compounded half-yearly?
18. Find the difference between C.I and S.I on ₹5000 for 1 year at 2% p.a, if the interest is compounded half yearly.

19. Find the rate of interest if the difference between C.I and S.I on ₹8000 compounded annually for 2 years is ₹20.
20. The cost of a machine is ₹18000 and it depreciates at 16% annually. What is its value after 2 years?