

Comparing Quantities

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1. When 5% sale tax is added on the purchase of a bedsheet of Rs. 300, find the buying price or the cost price of the bedsheet.
2. A man bought 200 bulls for Rs. 10 each and sold at the rate of Rs. 15 each. Find his profit % if 10 bulls were fused and had to be thrown away.
(A) 40% (B) 30% (C) 42.5% (D) 46.5%
3. A fan bought for Rs. 250 and then required for Rs. 100 and sold for Rs. 385. The loss or gain percent on this transaction is
(A) 10% (B) 20% (C) 15% (D) 5%
4. Find the C.I on Rs. 126000 for 2 years at 10% per annum.
(A) Rs. 2000 (B) Rs. 2646 (C) Rs. 3000 (D) Rs. 4000
5. The simple interest on Rs. 12500 at 12% per annum for 3 yrs is:
(A) Rs. 5000 (B) Rs. 4500 (C) Rs. 6000 (D) Rs. 2500
6. The selling price of an object when 20% discount on marked price of Rs. 4500 is
(A) Rs. 4000 (B) Rs. 3500 (C) Rs. 3000 (D) None
7. Count of 90 parent's surveyed only 20% parents helped their wards in their home work; the number of parents who helped their wards are:
(A) 18 (B) 20 (C) 22 (D) 30
8. 30% of x is 600 then value of x is
(A) 1000 (B) 2000 (C) 15000 (D) 1800
9. Neeta has Rs. 200 left after spending 60% of her money. The total money she had in the beginning is
(A) Rs. 200 (B) Rs. 300 (C) Rs. 400 (D) Rs. 500
10. 70% of 30 students are good in Mathematics then the number of students good in Mathematics is:
(A) 20 (B) 21 (C) 22 (D) 23
11. Reduction given on marked price is called.
(A) Discount (B) Rate (C) M.P. (D) C.P.
12. A machinery worth Rs. 10,000 depreciated by 5%. Its value after one year is
(A) Rs. 9000 (B) Rs. 9500 (C) Rs. 10500 (D) Rs. 10,000
13. Population of a city was 20,000 in the year 2000. It increased at the rate of 5% per annum. Their population in year 2001 is
(A) 20000 (B) 22000 (C) 21000 (D) 15000
14. If a basket has 20 apples and 13 oranges then the ratio of apples to oranges is written as
(A) 20:13 (B) 13:20 (C) 4:5 (D)
15. There are 25 oranges out of the total 50 fruits in a basket. The percentage of oranges is
(A) 25:50(B) (C) 50% (D) 25%

16. Out of 25 fruits, the number of oranges is 5. So out of 100 fruits the number of oranges is.
(A) 20% (B) 40 (C) 20 (D) 25
17. Find the ratio of the Car 60 Km/hr to the speed of Scooter 30 Km/hr.
18. Find the ratio of 5 m to 10 Km.
19. Convert the ratio 4:5 in to percentage.
20. Ram had Rs. 400 left after spending 60% of his money. How much did he have in all?
21. 76% of 50 Students are good in English. How many are not good in English.
22. A table fan is bought for Rs. 560 and expenses of Rs 40 are made on its repairs. It is sold at a profit of 5 %. Find the selling price.
23. A man got 10% increase in his salary. If his original salary was Rs. 30,000, find his new salary.
24. Shalu bought a water cooler for Rs 1100 including a tax of 10%. Find the price of the water cooler before VAT was added.
25. Find the amount on a principal of Rs. 2000 for 2 years at 10% per annum compounded annually. Also find the compound interest.
26. An item marked at Rs 640 is sold for 560. What is the discount and discount%.
27. The price of a car was Rs. 2,60,000 last year. It has increased 15% this year. What is the price now?
28. A table is sold at Rs. 5000 after allowing a discount of Rs 500. Find its marked price.
29. When the ratio 2:3 is converted to percentage, it is equal to
(A) (B) 66% (C) 50% (D)
30. Ranjan buys a clock for Rs. 75 and sells it for Rs. 100. His gain percent is
(A) 35% (B) (C) 20% (D)
31. A book seller sold a book for Rs. 100 and thereby gains Rs. 20. Find his gain percent.
(A) 20% (B) 25% (C) 40% (D) None
32. At what percent above the cost price must an article be marked so as to gain 33% after allowing a customer a discount of 5%?
(A) 35% (B) 38% (C) 40% (D) 42%
33. The buying price of a T.V is Rs. 14,560 when 12% S.T is added on the purchase of it, then the original price is:
(A) 13000 (B) 14000 (C) 12000 (D) 10000
34. A table is purchased for Rs. 5400 including 8% VAT. The price before VAT was added is
(A) Rs. 4000 (B) Rs. 5000 (C) Rs. 5200 (D) Rs. 5100
35. Buying price of a Scooter whose price is Rs. 14000 with 5% S.T is
(A) Rs. 14100 (B) Rs. 15000 (C) Rs. 14700 (D) Rs. 14500

36. Compound interest on Rs. 10,000 invested for 1 year and 3 months at 8% per annum compounded annually is
 (A) Rs. 1080 (B) Rs. 1016 (C) Rs. 1060.50 (D) Rs. 1100
37. A machine worth Rs. 5000 depreciated by 10%. Its value after 1 year is
 (A) 4500 (B) 4000 (C) 3000 (D) 3500
38. The population of a city was 20,000 in year 1998. It increased at the rate of 5% per annum. Its population at the end of year 2000 is:
 (A) 22000 (B) 22050 (C) 21000 (D) 22100
39. Amount and compound interest earned on Rs. 10000 for 1 year at 9% per annum compounded half yearly is
 (A) Rs. 10920.25 Rs. 920.25 (B) Rs. 11920.25 Rs. 1920.25
 (C) Rs. 12920.25 Rs. 2920.25 (D) Rs. 10020 Rs. 120
40. The amount earned at the end of one year on Rs. 150000 at 8% per annum compounded quarterly is:
 (A) 162364.82 (B) 162000 (C) 172000 (D) 162100
41. The ratio of 10 m to 10 Km is
 (A) 1:1000 (B) 10:100 (C) 1:10 (D) 100:1000
42. The ratio of 50 paise to Rs. 5 is
 (A) 1:20 (B) 1:10 (C) 1:2 (D) 2:1
43. The sale price of a bag marked Rs. 200 with 20% discount is:
 (A) Rs. 160 (B) Rs. 180 (C) Rs. 190 (D) Rs. 170
44. A book marked Rs. 250 is available for Rs. 200, then the discount % is
 (A) 20% (B) 30% (C) 25% (D) 10%
45. A doll is marked Rs. 650 and the shop gives a discount of 20% , then the sale price is:
 (A) Rs. 520 (B) Rs. 560 (C) Rs. 550 (D) Rs. 540
46. A shoe is sold at Rs. 1800 after allowing a discount of 10%, then its marked price is:
 (A) Rs. 2000 (B) Rs. 1900 (C) Rs. 1850 (D) Rs. 2010
47. A bag is sold for Rs. 600 after allowing a discount of 25%, then its marked price is:
 (A) Rs. 650 (B) Rs. 800 (C) Rs. 850 (D) Rs. 700
48. By getting 10% increase in his salary, Ram's new salary is Rs. 154000. Find his original salary.
 (A) Rs. 1,45,000 (B) Rs. 1,40,000 (C) Rs. 150000 (D) Rs. 160000
49. A Person sells an article for Rs. 550, gaining Rs 50 of its C.P. Find gain%.
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50. On selling a fan for Rs 810, Sunil gains 8%. For how much did he purchase it?
51. A Scooter was bought at Rs. 32000. Its value depreciated at the rate of 8% per annum. Find its value after one year.

52. Find the Compound Interest on Rs. 160000 for 2 years at 10% per annum when compounded semi-annually.

53. If the cost price of 10 greeting cards is equal to the selling price of 8 greeting cards, find his gain or loss%.

54. Rishi bought a wrist watch for Rs. 2200 and sold it for Rs. 1980. Find his gain or loss%.

55. A Cricket team won 10 matches out of the total matches they played. If their win percentage was 40, then how many matches did they play in all?

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56. A Shopkeeper offers his customers 10% discount and still makes a profit of 26%. What is the actual cost to him of an article marked Rs. 280?

57. Rahul bought an air conditioner for Rs 22000 including a tax of 10%, find the price of the air conditioner before VAT was added.

58. Harish sold a bicycle at 8% gain. Had it been sold for Rs 75 more, the gain would have been 14%. Find the cost price of the bicycle.

59. Shruti borrows Rs 12000 at 10% per annum for 3 years at simple interest and Shalini borrows the same amount for the same period at 8% per annum compounded annually. Who pays more interest and by how much?

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60. A man sold two of his buffaloes for Rs. 20,000 each. On one, he made a profit of 5% and on the other, he lost 10%. Find his overall profit or loss.

61. Find the amount and compound interest on Rs. 20000 for 1 year at 10% per annum compounded half yearly. Would this interest be more than the interest he would get if it was compounded annually?

62. If 60% people speak Spanish, 30% speak English and the remaining speak other language, then what percent of the people speak other languages? If the total population is 50 lakhs, find the exact number of people who speak each type of language?

63. A man gives 40% of his money to his children and 20% of the remaining to a trust. If he is still left with Rs 9600, What did he originally have?

64. In an examination, a candidate A scores 30% and fails by 40 marks while another candidate B scores 40% and gets 20 marks more than the minimum marks and minimum pass marks.

65. Bhawana bought two fans for Rs 3605. She sold one at a profit of 15% and the other at a loss of 9%. If Bhawana obtained the same amount for each fan. Find the cost price of each fan.

66. A man sells an article at 5% above its cost price. If he had bought it at 5% less than what he paid for it and sold it at Rs 2 less, he would have gained 10%. Find the cost price of the article.

67. A car is marked at Rs 3,00,000. The dealer allows successive discounts of 6%, 4% and $2\frac{1}{2}\%$ on it. What is the net selling price?

68. Find the difference between the simple interest and compound interest on Rs 16000 for $1\frac{1}{2}$ years at 5% per annum, compound interest being reckoned half yearly

69. The difference between the simple and compound interest for a certain sum of money for 3 years at 5% per annum is Rs 61.0. Find the sum.
70. In how many years will a sum of Rs 800 at 10% per annum compounded semi annually become Rs 926.10?
71. Determine the interest at which a sum of money will become $\frac{216}{125}$ times the original amount in $1\frac{1}{2}$ years, if the interest is compounded half yearly.
72. The population of Andhra Pradesh was 5.4×10^7 in 1988. If the population is growing at a constant rate of 2.4% per annum, find the population in 2008 AD [given that $(1.024)^{20} = 1.60694$]
73. The national wealth of a country increases by 4% of its value at the beginning of every year. Find the national wealth of the country in 1985, If it estimated at Rs 3.125×10^{12} in 1983