07. Percentage, Profit and Loss

1. In an examination are the pass marks. If a student gets marks and fails by marks, what are the maximum marks?

Answer:

* Had the student scored more marks , he would have passed.
* Let total marks be
* Percentage Passing marks

1. A earns more than B. By how much percent is B’s income less than that of A?

Answer:

* Solution:

1. In an election, one of the two candidates get of the total votes and still loses by votes. What is the total number of votes?

Answer:

* 1st candidate scored
* 2nd candidate scored
* 1st candidate lost by
* Total votes

1. A man gave of his money to his wife, of the remainder to his son and the remaining money equally to his three daughters. If each daughter gets , what does the wife get?

Answer:

* Assume man has money
* Wife
* Left
* Son
* Left
* Daughter
* Wife

1. The price of sugar is decreased by . To get back to its original value, the new price must be increased by what percent?

Answer:

* Assume the price was
* After decrement
* After increment

1. An article is sold at at a loss of . If it is sold at , the gain percent is

Answer:

* Let the cost price be
* SP
* CP
* New SP
* Percentage profit

1. By selling mangoes, a fruit seller gains the S.P. of mangoes. His gain is what percent?

Answer:

* Let the SP of mango be
* SP of mango
* Profit = SP of 30 mangoes
* CP
* Percentage profit

1. A soap company sells soap at and gives a spoon worth free with it, making a profit of . The cost price of soap is

Answer:

* Net SP
* SP excluding free spoon
* Let CP be
* Percentage profit

1. The entry ticket to a trade fair was increased by . Owing to that, the number of visitors was reduced by . The daily money receipts, however, increased by

Answer:

* Assume the cost of ticket was and the number of visitors was
* Net sale
* New cost of ticket
* New number of visitors
* New net sale
* Increase in net sale

1. The cost of of sweets increases every year by . Therefore, after two years, the cost of of sweets will be increased by what percent?

Answer:

* Let the original cost be
* After 1st year
* After 2nd year
* Net increase

1. The marks obtained by two candidates A and B in an exam are and respectively. Marks of A exceed that of B by what percent?

Answer:

* Percentage (increase)

1. A reduction of in the price of sugar enables a purchaser to obtain more sugar for . The price of sugar per kg before reduction is

Answer:

* Let the original cost per kg be
* Number of kgs that can be purchased for (@ rate )
* New cost per kg
* Number of kgs that can be purchased for (@ rate )

1. A man spends of his income on house rent, of his income on food and of the balance on conveyance. If he is left with , his income is

Answer:

* Let the man’s income be
* Rent
* Food
* Left
* Conveyance
* Left

1. In a competitive exam, all the candidates securing or more marks were selected. Mohan secured marks, which were less than the last selected candidate. The total marks were

Answer:

* Had Mohan scored more marks , he would have been selected.
* Let total marks be
* Percentage Passing marks

1. If of is the same as of , then of is

Answer:

* Solution: **None of the above**

1. The price of kerosene increases by . By how much percentage a family must reduce its consumption of kerosene, so as not to increase the monthly expenditure on kerosene?

Answer:

* Let the original price be and original consumption be
* Original monthly expenditure
* New price
* Let new consumption be
* New monthly expenditure
* Percentage reduction in consumption

1. A volleyball team has won games out of the played. If it has more games to play, how many of these must the team win to make its record of the season?

Answer:

* Let be the number of games needed to be won to make win rate
* Win rate

1. Of the employees of the company, are officers. If the officers’ staff were to be reduced by , what percent of the remaining employees would then be officers?

Answer:

* Number of officers
* New number of officers
* New total number of emp
* Percentage

1. On a certain day, a vendor began his business with some apples. Between the opening and noon, he sold of the apples and between noon and closing, he sold of the apples which remained. What percent of the original apples did he sell?

Answer:

* Let the total number of apples be
* Sold before noon
* Left
* Sold after noon
* Total sold

1. of subtracted from is equal to multiplying by which number?

Answer:

1. A man sold two cameras for each. On one he gained and on the other he lost . How much does he lose in the whole transaction? (Loss percentage)

Answer:

* CP of 1st camera
* CP of 2nd camera
* Net CP
* Net SP
* Percentage loss

1. A shop owner buys egg for cents per dozen and sells them for cents per egg. At this rate, what is the profit percentage?

Answer:

* CP per dozen
* SP per dozen
* Percentage profit

1. Sam sells a shirt at a profit of . Had he bought it at percent less and sold it for less, he would have gained . The cost price of the shirt is

Answer:

* There are 2 situations in the sum: Actual and Hypothetical.
* Actual
  + CP
  + SP
* Hypothetical
  + CP
  + SP
  + Percentage profit

1. Out of a number of electronic items, a person purchases refrigerator. of these were found to be defective. The percentage of defective refrigerators in all is

Answer:

* Assume total 2 items
* Refrigerators
* Defective refrigerators of refrigerators
* Percentage of defective refrigerators

1. Since 1950, when Tom was discharged from the army, he has gained two pounds every year. In 1980, he was heavier than he was in 1950. What percent of his 1995’s weight was his 1980’s weight?

Answer:

* Let the weight of Tom in 1950 be
* Weight gained till 1980
* Weight in 1980
* Weight in 1995