

# Assignments of comparing quantities

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## Question 1

Out of a salary of Rs 75000, I kept  $\frac{1}{3}$  as savings. Out of the remaining money, I spend 25 % on food and 40 % on house rent. How much do I spend on food and house rent?

## Question 2.

A big mega store is having a festival sale and all the items are having 25% discount.

Vivek is having a Rs 50 Gift card and he has chosen a game whose marked price is Rs 300. Now Vivek is confused how to calculate the discount and what remaining money need to be paid to the clerk

The sales clerk has suggested two ways to calculate the concession

Method 1: Subtract Rs 50 from Marked price and then take 25% discount on the remaining amount

Method 2: Take 25% discount on the Marked price and then subtract Rs 50 from it

Now the questions for you

- Do you think both the method will give same result? If not predict which method will be beneficial to him
- Calculate the amount Vivek has to pay to the clerk in each case
- What method do the store actually uses? And why?

## Question 3

Rina gets 94 marks in her exams. These are 47% of the total marks. Find the maximum number of marks.

## Question 4

A tank can hold 50 liters of water. At present, it is only 30 % full. How many liters of water shall I pit in the tank, so that it is 50 % full?

**Question 5**

In case of gain on the selling of product.

Selling price is defined as

$$S. P = [1 + (\text{Gain}\%/100)] \times C.P$$

Which check if this is true

**Question 6**

Fill in the blank

- 1) Five times a number is a \_\_\_\_\_ % increase in the number
- 2) The cost price of 10 cardboards is same as Selling price of 5 cardboards. The profit % in this transaction is \_\_\_\_\_
- 3) The discount on an item is calculated on the \_\_\_\_\_ of the item
4. \_\_\_\_\_ is charged on the sale of an item by government and is added to the bill amount

**Question 7**

An income is 20 % more than B. How much percent is B income less than A?

**Question 8**

Find the following

- 1) MP =Rs 1000, Discount 10%, SP=?
- 2) SP =Rs 80, Discount 10%, MP =?
- 3) MP=Rs 625, SP=Rs 562.50, Discount%=?

**Question 9**

Sachin bought a pair of Reebok shoes at a sale of 25%. If the amount he paid was Rs 2000, find the marked price.

### Question 10

In an election, there are a total of 60000 voters and there are two candidates, A and B. 60 % of the voters go for polls out of which 60 % vote for A. How many votes do B get?

### Question 11

If the Principal is Rs50000 and 8% is the rate of interest per annum compound annually

- Find the interest earned in First year
- What is the principal for 2<sup>nd</sup> Year
- What is the interest earned in second year
- Is First year interest same as second year interest
- What will be the total interest earned for 2 years if it were simple interest per annum

### Question 12

An agent of an insurance company gets a commission of 8 % on the basic premium he collects. What will be the commission earned by him if he collects Rs 4800?

### Question 13

There are 442 boy students in class X in all the section in Saint Xavier school. If 25% of the students are girls, find the total number of students in class X

### Question 14

You buy a house for Rs 400,0000 and pay a tax of 8%. How much is tax?

### Question 15

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$$Z\% \text{ of } 100 + 10\% \text{ of } 50 = 100$$

Find the value of  $z$

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