

LESSON PLAN**SUBJECT-MATHEMATICS****CLASS- VIII****CHAPTER-8****COMPARING QUANTITIES****LESSON PLAN (CONSOLIDATED)**

Chapter number and title of chapter	Chapter 8 Comparing quantities
Number of periods	Total: 10 periods (approx. 40 min each)
Learning Objective	Students will be able to 1) recall facts and basic concepts related to ratio and proportion. 2) explain the meaning of profit, loss sale tax and discount. 3) use information and concept in daily life situation in solving the problems related to discount, sale tax and compound interest. 4) differentiate between simple interest and compound interest. 5) calculate the amount and compound interest using formula 6) Produce innovative ideas/ create innovative problems related to discount and sale tax
Teaching aids/Resources	Text book: 1) Mathematics Text Book for class VIII by N.C.E.R.T 2) Videos related to the concept of profit and loss. discount and discount %. power point presentation of this chapter. 3) Students can visit bank also for the concept of simple interest and compound interest. 4) Students can visit showroom or any shop to know about the concept of sale tax and discount.
Previous	This lesson requires:

knowledge/curiosity questions	1)basic knowledge of fraction 2) define profit, loss, discount, percentage and sale tax. 3) identify the difference between profit percent and loss percent. 4) calculate selling price and cost price when profit percent or loss percent is given. 5) find discount percent when marked price and selling price is given of the article. 6) apply the concept of increased percent and decreased percent in real life situations. 7)perform skills like multiplication, division.
Announcement of topic	Comparing quantities
Teaching (Methodology)/ strategies	<u>Teaching strategies</u> – experiential learning, class discussion, problem solving, power point presentation, lecture and demonstration method. <u>Techniques</u> - Quiz, daily practice problems, MCQ
Content obligatory vocabulary (keywords)	Ratio ,percentage ,cost price ,selling price, value added tax, profit, loss ,Sale tax ,compound interest ,simple interest, discount, discount%, increase %,decrease % Overhead expence,rate of interest.
Learning concept/teaching point	Concept of: Ratio percentage ,profit % , loss% ,discount and discount % ,sale tax ,compound interest
Hard spot/focus spot	Students get confused while finding compound interest annually and half yearly.so different examples will be given to clear the concept.
Experiential learning	Concept of percentage by activity method and by quiz. Concept of profit and loss ,discount and discount % to be clear by PPT.
Subject enrichment activity for internal assessment	Each student to find the percentage of marks of unit test 1 .
recapitulation	Complete the following formula: 1)profit%= 2)loss% = 3) discount%= 4 compound interest =
Assignment	1) Find the ratio of 5m to 10km. 2) 72% of 25 students are good in Mathematics. How many are not good in Mathematics?

	3) An item marked at Rs. 840 and sold for Rs. 714. What is the discount and discount percent? 4) Sohan bought a second hand refrigerator for Rs. 2500, then spent Rs. 500 on its repair and sold it for Rs. 3300. Find his loss or gain percent? 5) A man got 10% increase in his salary. If his new salary is Rs. 154000. Find his original salary? 6) Find the compound interest on a sum of Rs. 8000 for 2 years at 5% per annum compounded annually.
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