

Class/Section: - VIII Subject:-MATHS

Chapter: - 8- COMPARING QUANTITIES

No. of periods: - 20

Date of Commencement: -

Expected date of completion: -

Actual date of Completion: -

Gist Of The lesson	Targeted learning outcomes (TLO)	Teaching learning activities planned for achieving the TLO using suitable resources and classroom management strategies	ASSESSMENT STRATEGIES PLANNED
Focused skills/Competencies			
INTRODUCTION:- RATIOS AND PERCENTAGES	To understand that ratio is a comparison of two quantities which are in same units. Percentage means the quantity out of 100.	Recall the concept of ratios and percentages from the lower classes through different examples. If the no. of boys = 25 and no. of girls = 20 the ratio of no. of boys to no. of girls $\frac{25}{20} = \frac{5}{4}$ 5:4. $\frac{15}{100} = \frac{15}{100} \times 20 = 3$ If a boy got 28 marks out of 40 then the percentage of marks = $\frac{28}{40} \times 100 = 70\%$ . Do more egs for getting practice.	1-By asking oral question. 2- Home work 3- By solving questions on black board. 4- Class test  H/W ( Qns from exercises )
INCREASE OR DECREASE PERCENT, DISCOUNT	To identify whether increase or decrease in the amount and how to find its percentage. Discount is reduction given on marked price.	Increase or decrease % = $\frac{\text{change in the amount}}{\text{initial amount (base)}} \times 100\%$ Discount = Marked price – Sale price Discount % = $\frac{\text{discount}}{\text{Marked price}} \times 100\%$ Demonstrate different problems to understand the formulae.	Oral test  Dictation  Class Test
COST PRICE, SELLING PRICE , LOSS %/ PROFIT %	To understand the relation between cost price, selling price and profit/loss and how to find the loss/profit %	Make the children understand that Profit = Selling Price – Cost Price = SP – CP and loss = CP – SP Profit % = $\frac{\text{profit}}{\text{CP}} \times 100$ and loss % = $\frac{\text{loss}}{\text{CP}} \times 100$ Explain the formula by doing different problems.	
SALES TAX/ VALUE ADDED TAX	To understand the difference between sales tax and value added tax (VAT)	The amount ( a particular % of CP ) is collected by the shopkeeper in addition to the SP for submitting to the govt is called the sales tax. In some situations the SP includes the tax, which is known as value added tax or VAT. Take different questions from the daily life.	H/W
COMPOUND INTEREST	To find the compound interest of a given amount with a given rate of interest for a particular period of time.	CI is calculated at the starting of each year by finding the simple interest on the amount = principal of the previous year + interest. The formula developed for finding the amount after n years = $P(1 + \frac{r}{100})^n$ where P = Principal, r = rate of interest per annum, n = the no. of full years. If the calculation is half yearly n becomes $\frac{n}{2}$ and r becomes $\frac{r}{2}$ CI = Amount – P The same formula can be used in the case of growth problems. For egs population In the case of depreciation the formula becomes $P(1 - \frac{r}{100})^n$ Demonstrate more examples in the class room.	Lab Activity  LAT

# Grade 8 Maths Lesson Plans

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