

# PROFIT AND LOSS PERCENT

**Overview** 

3.20.2019

#### **Subject**

#### Mathematics

## This lesson plan covers teaching content for calculating;

## **Prepared By**

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## **Grade Level**

5

Cost price

- 2. Selling price
- 3. Profit
- 4. Loss
- 5. Profit percentage
- 6. Loss percentage

## **Objectives**

Students should be able to solve for:

- 1. Cost price
- 2. Selling price
- 3. Profit
- 4. Loss
- 5. Profit percentage
- 6. Loss percentage

#### **Activity Starter/Instruction**

1. When the selling price of a good is higher than its cost then, it is called profit. Profit is calculated as the difference between the selling price and the cost price.

$$Profit = S.P - C.P$$

$$S.P = C.P + profit$$

$$C.P = S.P - profit$$

2.Similarly, when the selling price of a good is lower than its cost price then it is called loss.The loss is calculated as the difference between the cost price and the selling price.Loss = C.P – S.P

$$C.P = S.P + Loss$$

$$S.P = C.P - Loss$$

The formulas for profit and the loss percent are;

4.Profit percent =  $\underline{Profit} \times 100\%$ 

Or 
$$\underline{S.P-C.P} \times 100\%$$

C.P

5.Loss percent = Loss × 100%

C.P

Or C.P - S.P  $\times$  100%

#### **Teacher Guide**

#### Day 1/ Lesson 1: 15mins

- 6. Suppose the Cost Price of a book is 15. Let it be sold at 20% profit. What is the selling price?
- 7. S.P = C.P + Profit

$$S.P = 15 + (20/100) \times 15$$

$$= 15 (1 + 20/100)$$

$$= 15 \times (120/100)$$

$$= 15 \times (6/5)$$

=18

8. Writing this product enables speed in calculation. Simplifying this product is easier compared to finding the amount of profit separately first and next adding it to the cost price.

### Materials Required

- White Board
- -Marker

#### **Additional Resources**

- https://www.math-onlymath.com/worksheets-on-profit-and-losspercentage.html
- <a href="https://wordpandit.com/profit-and-loss-concepts/">https://wordpandit.com/profit-and-loss-concepts/</a>
- https://www.urbanpro.com/cbse-class-7-maths-comparing-quantity/6590728
- <a href="https://www.onlinemathlearning.com/profit-loss.html">https://www.onlinemathlearning.com/profit-loss.html</a>

Additional Notes

C.P

#### **Guided Practice**

#### Day 2/ Lesson 2: 15 Mins

- A book is purchased at \$10. It was sold at \$12. What is the profit percent?
- 2. C.P = 10 and S.P = 12 Profit = 12 - 10 = 2 Profit % is [(Profit/C.P) × 100]% (2/10) × 100% = 20%
- 3. A boy purchased a pen at \$5. He sold it to his friend for \$4. What is the loss he made in percentage?
- 4. C.P = 5 and S.P = 4 Loss = 5 - 4 = 1 Loss % is [(Loss/C.P) × 100]% (1/5) × 100% = 20%
- 5. The Loss % is 20%

#### **Guided Practice**

#### Day 3/ Lesson 3: 20mins

- Raja purchased a bike for Rs. 75000 and he sold it for Rs.55000. Is it the condition of profit or loss? Also, find the profit or loss percentage incurred by him.
- Cost price (CP) of the bike = Rs. 75000
  Selling price (SP) of the bike = Rs.55000
  Here, SP < CP, it is a loss.</li>
- 3. Net Loss= CP SP = 75000-55000 = Rs. 20000
- 4. Now, Raja's loss % will be (20000/75000) × 100=80/3 =26.667%
- 5. Loss percent of Raj is 26.67%.

## **Summary**

Ask pupils randomly for answers and go over some of the problems with the class

## **Assessment Activity**

Pupils should be able to solve for; loss, profit, cost price, selling price, loss percentage and profit percentage.

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