

$$\frac{1}{\sqrt{2}} = \frac{1053}{\sqrt{2}} \times 100) / - \frac{1}{\sqrt{2}} = \frac{1053}{\sqrt{2}} \times 100) / - \frac{1}{\sqrt{2}} = \frac{100}{\sqrt{2}} \times 100) / - \frac{1}{\sqrt{2}} = \frac{100}{\sqrt{2}} \times 100$$

$$= \left(\frac{CP-SP}{CP} \times IOO\right) / ...$$



# 01. A man bought an old typewriter for ₹ 1200 and spent ₹ 200 on its repair. He sold it for ₹ 1680. His profit percent is: Actual 4 = 1200+200 = 7 1400

$$= \left(\frac{1680 - 1400}{1499} \times 1869\right)$$





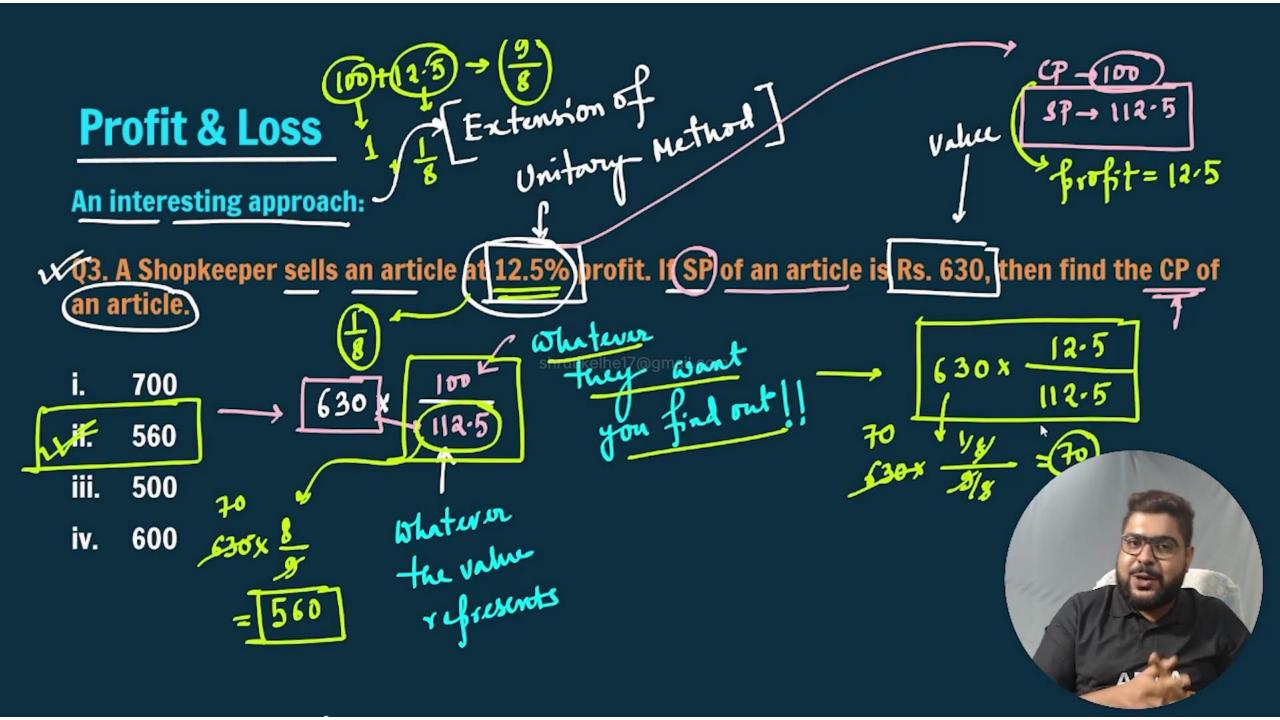
11 - 9.09%.
9 11 1.

22. The ratio of cost price and selling price is 11:15) The percent of profit will be:

iii. 12.5%

iv. 10%





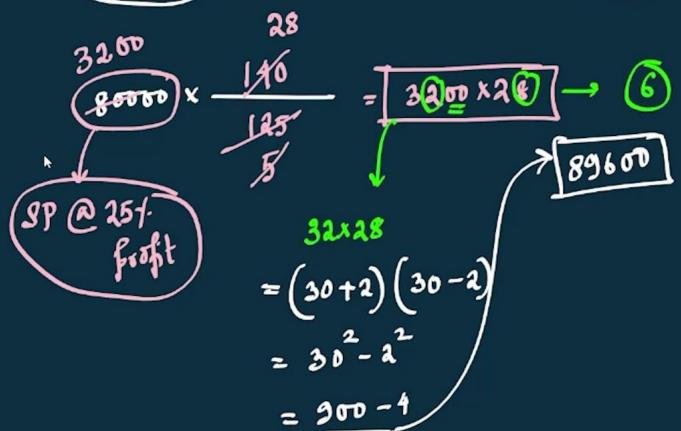
404. A horse was sold for Rs 80000 at 25% profit. In order to gain 40% profit, at what price it should be sold?

CP -> 100



ii. 944<u>00</u>

iii. 90000





4 → 100 51 + 80 2 110

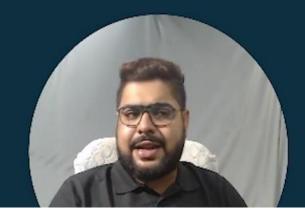
55. Mohan sold a plot for Rs 200000 at a 20% loss. To gain 10% profit, for what price should he sell the plot?

i. 250000

275000

iii. 300000

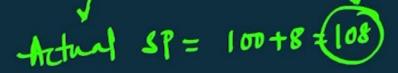




 $CP = \frac{9}{10} \times \text{SP} \longrightarrow \boxed{SP \rightarrow 100} \leftarrow$ 

with Mahesh purchased a radio at (9/10)th of its selling price and sold it at 8% more than its original selling price. His percentage gain is:

$$\frac{1}{\sqrt{\frac{9ain}{x}}} = \frac{SP - CP}{\sqrt{\frac{108 - 90}{30}}} \times 100$$





# Had he edd

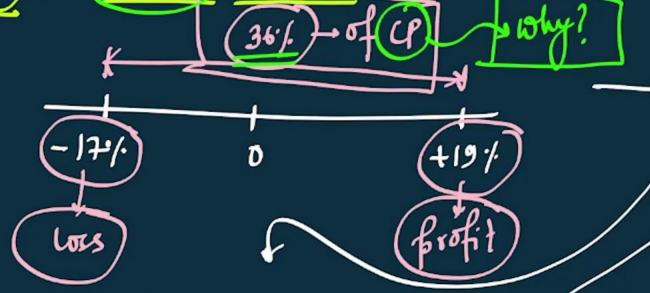
#### **Profit & Loss**

47. A shopkeeper sells an article at a loss of 17%. Had he sold it for Rs. 144 more, he would have earned a profit of 19%. The cost price of the article is:

- i. Rs. 300
- ii. Rs. 250

**端.** Rs. 400

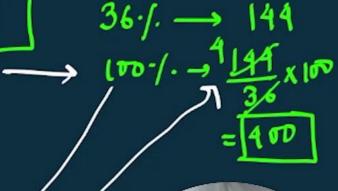
iv. Rs. 500



$$36./- of cp = 144$$

$$36./- of cp = 144 = 144 \times 100$$

$$36 \times cp = 144 = 144 \times 100$$





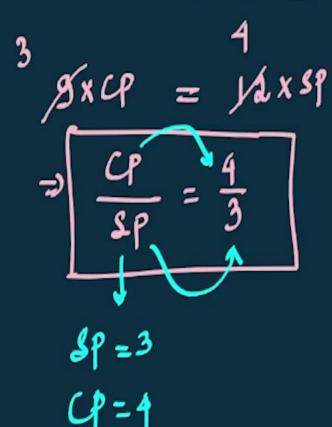




ii. 35%

iii. 10%

iv. 33.33%



$$\frac{\sqrt{\frac{3P-4}{x \cdot 100}}}{\sqrt{\frac{3-1}{4} \times 100}} = \frac{\frac{3-1}{4} \times 100}{\sqrt{\frac{3-1}{4} \times 100}}$$



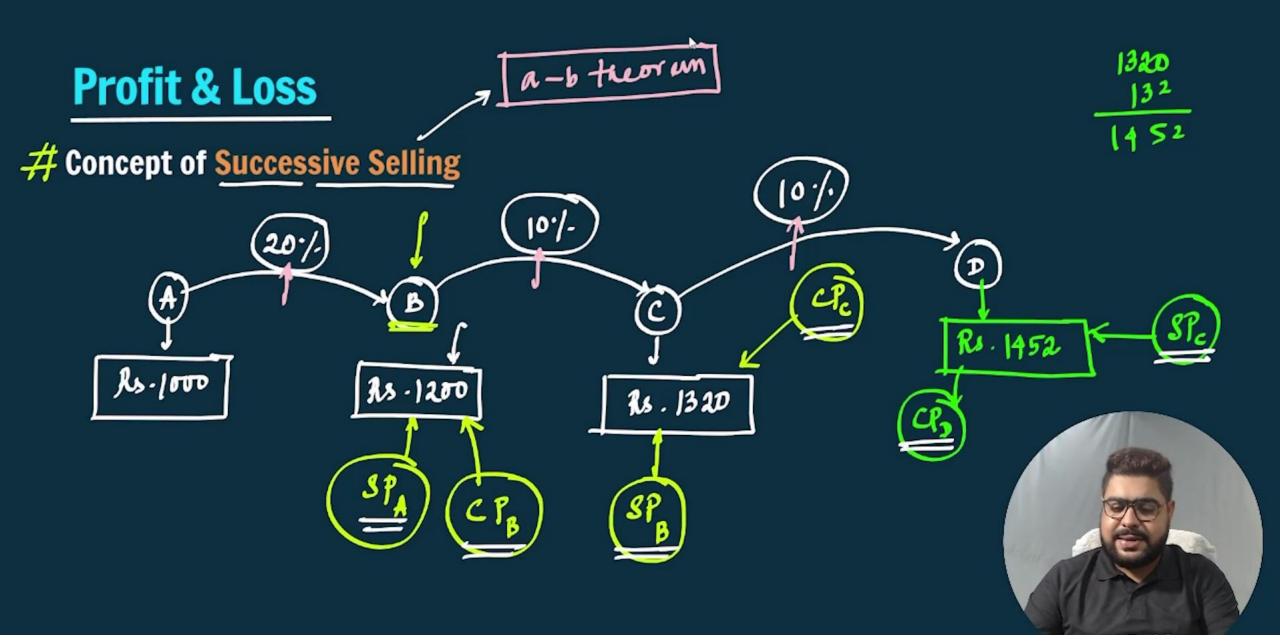
1 29. After selling 25 lemons, a shopkeeper loses SP of 5 lemons. Find percentage loss of

shopkeeper.

25% iv.





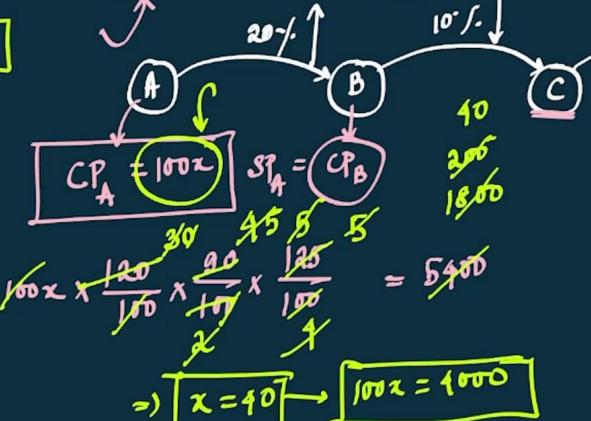


value. A sells an article to B at 20% profit, B sells it to C at 10% loss and C sells it to D at 25% profit. If D paid Rs. 5400, then find the CP of A.

1. 4000

ii. 4100

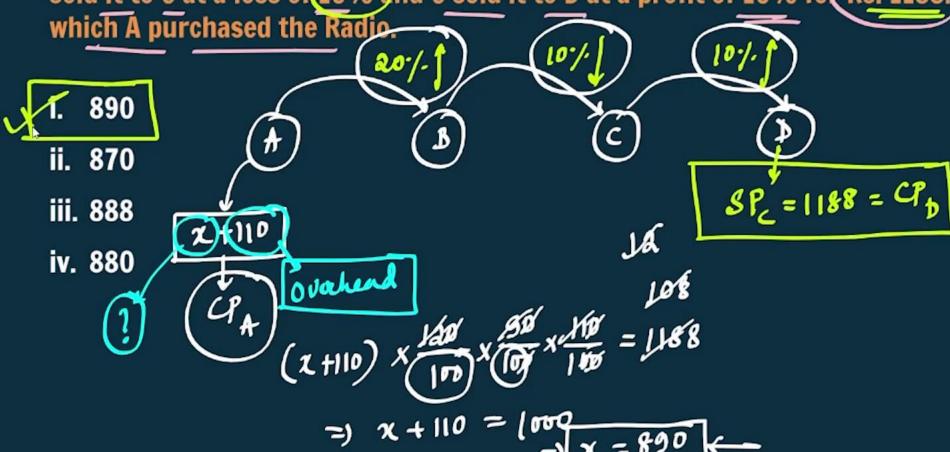
iii. 3900





##11. A purchased a Radio and spent (Rs. 110) to repair it. Then he sold it to B at a profit of 20%. B sold it to C at a loss of 10% and C sold it to D at a profit of 10% for Rs. 1188. Find the price at

Ovorhead



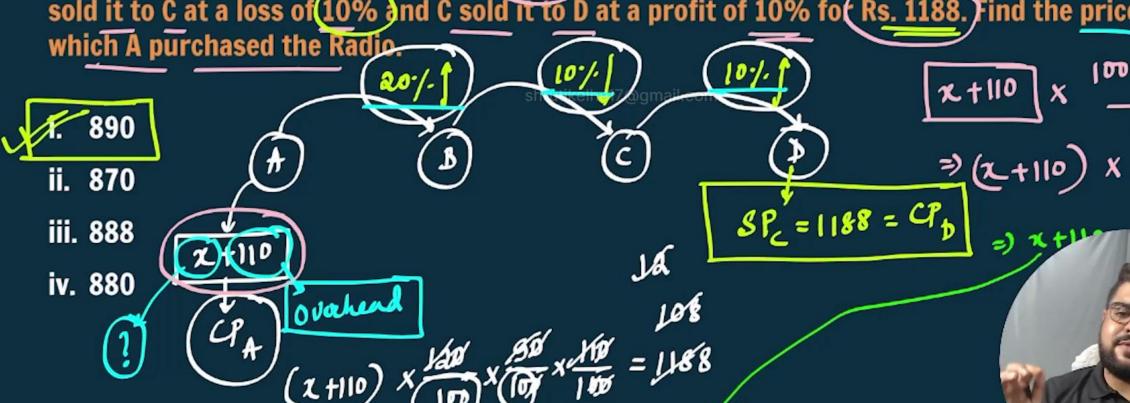


Profit & Loss

$$= 19 - \frac{1}{5} = \frac{94}{5}$$

#11. A purchased a Radio and spen (Rs. 110) to repair it. Then he sold it to B at a profit of 20%. B

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9 facts -> Rs. 450

1 fort -> R1. 450 50

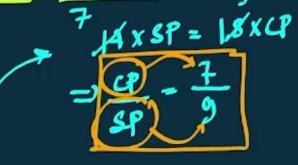
7 farts - 7×50 - Rs. 350

SP= CP+ frofit

#Q12. Cost price of 14 watches are same and each watch sells for Rs. 450 and as a result, earns a profit equals to cost price of 4 watches. Find the cost price of each watch.

iv. 300

CP XI4 - 4 X CP



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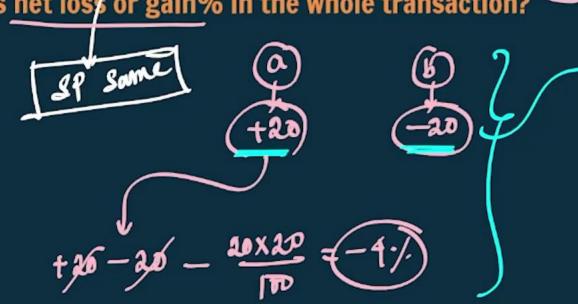
\$ # SP of two items are similar - use theorem?

Theorem.

013. A shopkeeper sells two TV sets for the same price. He gain 20% on one set and loses 20% on another. What is net lose or gain% in the whole transaction?

- i. 2% profit
- ii. 2% loss
- iii. 4% profit

iv. 4% loss



$$\frac{2}{2}$$

$$\frac{2}$$



## (100 ± loss or gain), (100 ± loss or gain),

#### **Profit & Loss**

one article's cost price is Rs.10000 then what will be the second's cost price?

ii. Rs. 9500

iii. Rs. 11400

(iv. Rs. 11600

$$\frac{|0000|}{|0000|} = \frac{|000 + 25|}{|000 + 25|}$$

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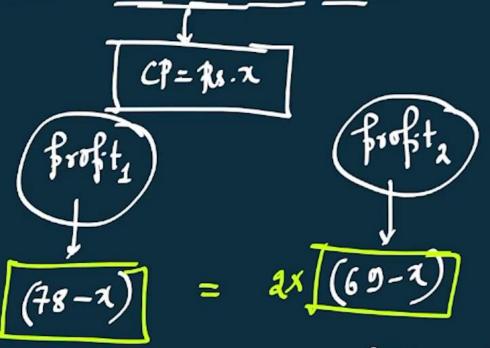


15. After selling an article for Rs. 78, a shopkeeper gains twice as he gains after selling the article for Rs. 69 Find the cost price of the article.

i. 65

ii. 60

iii. 72



=) 
$$78-x = 138-2x = \sqrt{x} = 60$$



3P1 = 120 x

15 less he would have earned 30% profit. Find the CP of article.

i. 600

iii. 585

$$90 \times x \frac{130}{100} = 120 \times -15$$

=) 
$$117x = 120x - 15$$
  
=)  $x = 5$ 





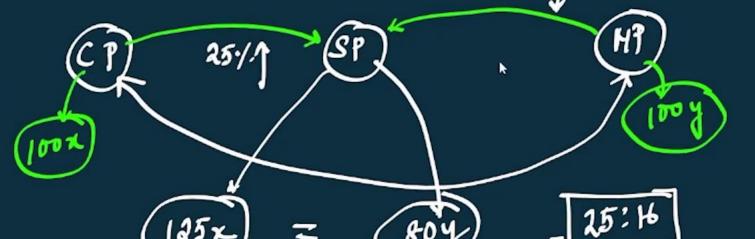
MP: CP = 1004:1002

17. A shopkeeper sells an article at 25% profit after allowing a discount of 20%. Find the ratio of the marked price to the cost price of the article.

H. 25:16

iii. 9:16

iv. 25:21



$$=) \frac{4}{x} = \frac{25}{804}$$

$$=) \frac{4}{x} = \frac{125}{80} = \frac{25}{16}$$

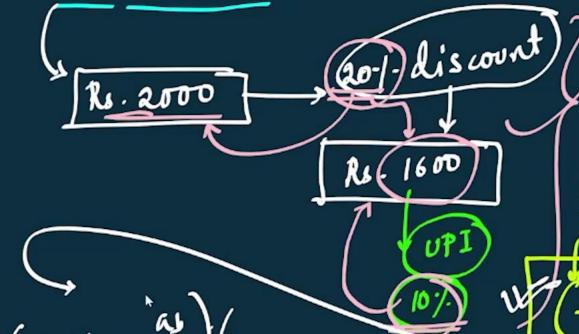


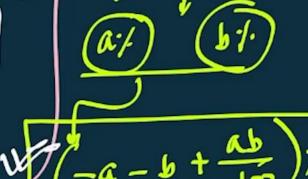
No - Not (30-/-)

a-b theorem

Discount Of MP

#### **Successive Discount**











Q18. A single discount of 50% on an article costing ₹10000 is better than two successive discounts of 40% and 10% by \_\_\_\_:

**%**. Rs. 400

ii. Rs. 1000

iii. Rs. 500

iv. Rs. 600

$$= -50 + 4$$

46% discount





19. The price of an article is raised by 20% and then sold after giving two successive discounts 0% each. Ultimately, the SP of the article is approximately what percent of its CP?

iv. 110%

$$\frac{486x}{5} \times 100$$

net discount = -10-10+10x60

