MAH-CET 2024 FOR

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MATHS

PROFIT & LOSS

CRASH COURSE

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Understanding Basic Terms

Printed

MRP

Marked Price: Printed Price on product

Cost Price: Price at which product is PURCHASED by shopkeeper

Selling Price: Price at which product is SOLD.

Profit

SP > CP

Marked Price: Printed Price on product

Cost Price: Price at which product is PURCHASED by shopkeeper

Selling Price: Price at which product is SOLD.

10 < 12
CP < SP

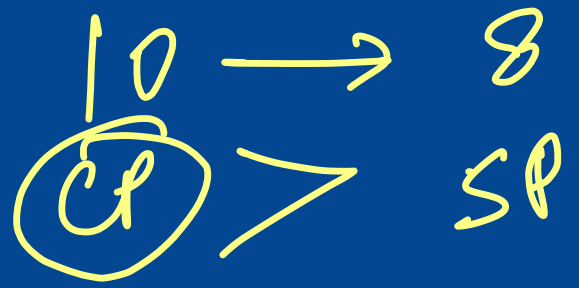
PROFIT = SP - CP

Profit / Loss

PROFIT % = $\frac{Profit}{CP} \times 100$

CP

Loss



Marked Price: Printed Price on product

Cost Price: Price at which product is PURCHASED by shopkeeper

Selling Price: Price at which product is SOLD.

LOSS = CP – SP

LOSS % $= \frac{Loss}{CP} \times 100$

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Remember:

%

PROFIT & LOSS is always calculated on CP

10 — 9
CP SP

How to find ?

SP – CP = +ve ➔ Profit

SP – CP = -ve ➔ Loss

SP − CP

9 − 10
= +1

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Discount:

Discount is always calculated on Marked Price.

Discount = MP – SP

$$\text{Discount \%} = \frac{Discount}{MP} \times 100$$

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💡 **TIP:**

If a man purchased ‘m’ articles for Rs.p and sold ‘n’ article for Rs.q . Then how much is profit or loss percentage?

$$\text{Profit or Loss \%} = \frac{mq - np}{np} \times 100$$

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💡 TRICK FORMULA FOR SP

$$SP = \frac{100 + Profit\%}{100} \times CP$$

$$SP = \frac{100 - Loss\%}{100} \times CP$$

$$CP = \frac{SP \times 100}{100 + Profit}$$

$$CP = \frac{SP \times 100}{100 - Loss}$$

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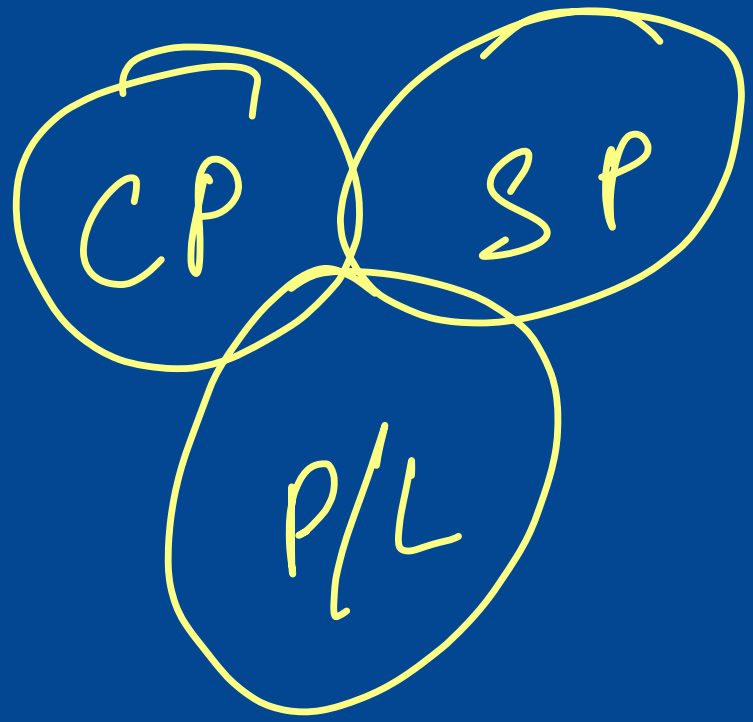
💡 TRICK FORMULA FOR CP



$$\text{CP} = \frac{100 \times SP}{100 + Profit\ \%}$$

$$\text{CP} = \frac{100 \times SP}{100 - Loss\ \%}$$

TIP:

If a man purchased 7 watches for Rs.500 and sold 5 watches for Rs.400 . Then how much is profit or loss percent?

$$\text{Profit or Loss \%} = \frac{mq - np}{np} \times 100$$

$$\frac{300}{25} = 12\% = \frac{7 \times 400 - 500 \times 5}{500\ 05} \times 100$$

$$= \frac{2800 - 2500}{2500} \times 100$$

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1. A man buys an article for Rs. 27.50 and sells it for Rs. 28.60. Find the gain percent?

A. 4%
B. 3%
C. 5%
D. 10%

CP

Profit = 28.60 − 27.50 = 1.10

$$\% = \frac{1.10}{27.50} \times 100$$

$$= \frac{110 \times 100}{2750 \times 100}$$

4%

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2. Find SP when CP = Rs. 56.25 and Gain = 20%?

A. ~~Rs. 72~~

B. Rs. 67.5

C. ~~Rs. 50~~

(d) Rs. 75

B

Profit

$$SP = \frac{100 + \text{Profit}}{100} \times CP$$

$$= \frac{100 + 20}{100} \times 56.25$$

$$= \frac{120}{100} \times 56.25$$

$$= 67.500$$

3. Find SP when CP = Rs. 80.40, loss = 5%?

A. Rs. 81

B. Rs. 84.72

C. Rs. 76.38 ✓

D. Rs. 82.9

$$SP = \frac{100 - Loss}{100} \times CP$$

$$= \frac{100 - 5}{100} \times 80.40$$

$$= 19 \frac{95}{100} \times 80.40$$

$$\frac{19 \times 80.40}{20}$$

$$= 76.38$$

C

4. If the CP of 13 bats is Rs.390. What is the SP when it sold for 10% loss?

A. Rs.200
B. Rs.300
C. Rs.350
D. None of these

$$SP = \frac{100 - \text{Loss}}{100} \times CP$$

D ✓

$$\frac{10}{100} \times 390$$

Rs. 39

$$SP = \underset{CP}{390} - \underset{\text{Loss}}{39} = 351$$

5. Amit purchased 13 chair of Rs. 115 each and sold all at Rs. 1220. Then find the profit or Loss on the transaction?

A. Rs. 280 Loss
B. Rs. 275 Loss
C. Rs. 325 Profit
D. Rs. 350 Profit

B

SP = 1220

CP = 13 X 115

= 1495

CP > SP

1495 − 1220

275

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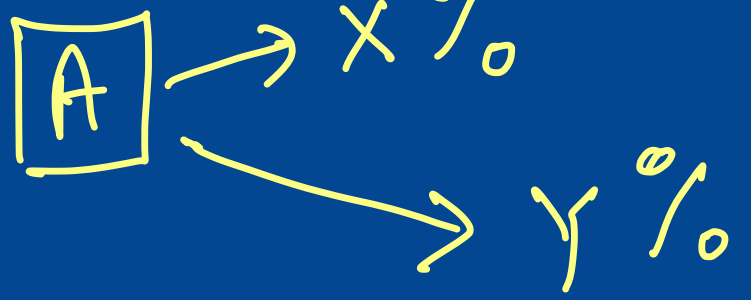
6. Two discounts of 40% and 20% equal to a single discount of?

A. 48%
B. ~~53%~~
C. 52%
D. ~~60%~~

C



TRICK

Final Discount % = $X + Y - \frac{XY}{100}$

$40 + 20 - \frac{40 \times 20}{100}$

60 − 8

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7. Anurag ordered three burgers for Rs. 200, Deepak ordered 2 burgers of average price Rs 80 & Veer ordered 3 burgers, each burger cost him Rs 95. Find average cost of each burger.

A. Rs.85.625
B. Rs.75.625
C. Rs.70.625
D. Rs 80.625

TC

(D)

Anurag = 200

Deepak = 80 x 2 = 160

Veer = 95 x 3 = 285

$\frac{200+160+285}{3} = \frac{645}{8}$

$\frac{645}{8} = 80.62$

8. Ashish buys a T.V at a discount of 15%. If he buys the same T.V at a discount of 12.5%, then he would have to pay Rs. 175 more. Find the marked price of T.V? (in Rs.)

(a) 6000
(b) 7000
(c) 5000
(d) 6500

B

MP = 100x

Discount = 15x

= 12.5x

15x − 12.5x = 175

2.5x = 175

x = 175 / 2.5 =

70

1750 / 25

100 × 70

= 7000

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9. A man sold his second hand mobile phone for Rs.7500 by losing 1/6th of the price at which he bought. Find the cost of the mobile phone.

A. 5000
B. 8300
C. 8700
D. 9000

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10. What is the percentage of loss on the CP if the loss on SP is Rs.20?

A. 16.66%
B. 18.23%
C. 21.33%
D. 5.66%

(A)

Let SP = 100 loss = 20

Loss = CP − SP

20 = CP − 100

CP = 120

$\frac{20}{120} \times 100$

$\frac{200}{12}$ 16.66%

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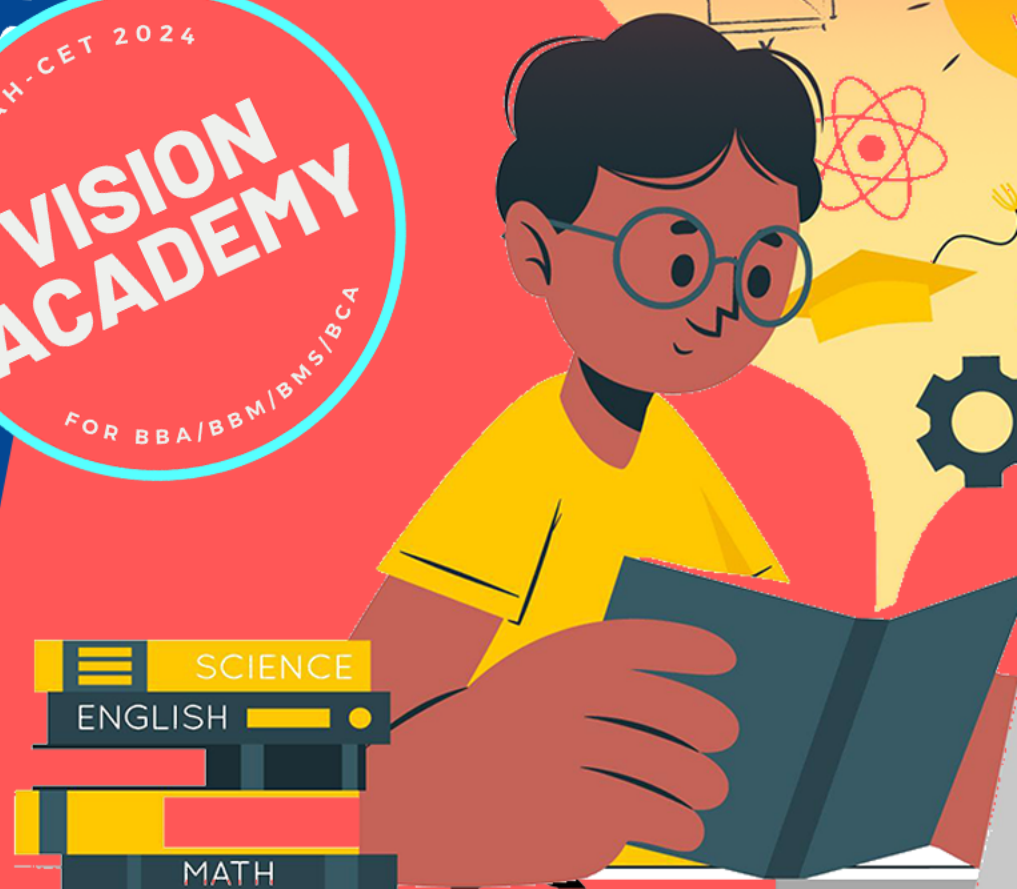
STRUCTURE OF INSTRUCTIONS IN CPU



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