

# Practice Problems

Profit And Loss

Q 1. If the cost price is 25% of selling price. Then what is the profit percent?

- a) 300%
- b) 200%
- c) 250%
- d) 150%



# Option A

- Let  $SP=100$
- So  $C_p = 25$
- $P=75$
- $P\%=75/25 * 100 = 300\%$

Q 3. Dealer sells goods at 10% loss on C.P. but uses 20% less weight. Find the loss or gain %.

- A. 12.5%
- B. 20%
- C. 22%
- D. None



# Option A

- Let cp of 100 kg = rs 100
- He is saying he is selling at 10 % loss
- so Sp of 100 kg =90
- But since he is using 20% less weight
- So he is selling only 80 kg instead of 100 kg
- That means SP of 80 kg = 90
- Originally cp of 80 kg = 80
- Profit=10      p %= $\frac{10}{80} * 100=12.5\%$

Q 5. A shopkeeper sold 12 cameras at a profit of 20% and 8 cameras at a profit of 10%. If he had sold all the 20 cameras at a profit of 15%, then his profit would have been reduced by Rs.36. What is the cost price of each camera?

- a) 100
- b) 150
- c) 180
- d) 220



# Option C

- Let CP of 1 camera = Rs 100
- As he sold 12 cameras at profit of 20 %
- so profit on 1 camera = Rs 20
- So profit on 12 Camera = Rs 240
- As he sold rest 8 cameras at profit of 10 %
- So profit on these 8 cameras =  $8 \times 10 = 80$
- Total Profit =  $240 + 80 = 320$
- Another situation if he sold all 20 cameras at profit of 15 %
- Then profit =  $15 \times 20 = 300$
- So profit reduced by 20 if cp was 100
- If Profit reduced by 36 then  $cp = 100/20 \times 36 = 180$

Q 6. A tradesman allows a discount of 15% on the written price. How much above the cost price must he mark his goods to gain 70%?

- a) 100% of CP
- b) 200% of CP
- c) 85% of CP
- d) 185% of CP





# Option A

- $70 = a - 15 - 15a/100$
- Now solve by options

Q 7. A bicycle is sold at 10% profit. Had it been sold for Rs. 10 less, the profit would have been 5% only. What is the cost price of the bicycle?

- a) Rs 190
- b) Rs 200
- c) Rs 210
- d) Rs 2000



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# Option B

- $5\%=10$
- $1\%=2$
- $100\%=200$

Q 8. A shopkeeper is giving 6 kg of rice at the price of 5 kg. What should be the mark up on the cost price to make a profit of 20%?

- a) 20%
- b) 33%
- c) 44%
- d) 66%



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Q 9. A sells an item at a profit of 20% to B and B sells it to C at a profit of 10%. Find the resultant profit percent?

- a) 22%
- b) 32%
- c) 42%
- d) 60%



# Option B

- Solve by net effect
- $20+10+20*10/100=32\%$

A shopkeeper sells one transistor for Rs. 840 at a gain of 20% and another for Rs. 840 at a loss of 20%. His total gain or loss percent is:

- A. 3% loss
- B. 3 % gain
- C. 4 % loss
- D. None of these

# Option C

- $SP1=SP2$
- $P\%=L\%=x$
- Always loss
- $\text{Loss \%} = x^2 / 100$
- So answer is  $20*20/100=4\%$  loss



A shopkeeper sells one transistor at a gain of 20% and another at a loss of 20%. Cost Price of each transistor is Rs 700.

His total gain or loss percent is:

- A. 3% loss
- B. 3 % gain
- C. 4 % loss
- D. No Profit No Loss

# Option D

- $CP1=CP2$
- $P\%=L\%=x$
- Then No Profit No Loss

- By selling an article for Rs. 550 a man gains something but by selling at Rs. 500 his loss is double the former gain. Find the C.P.
- A)540
- B)525
- C)510
- D)533.33

# Option D

- $CP = x$
- $SP = 550$
- $2(550-x) = x - 500$
- $1100 - 2x = x - 500$
- $3x = 1600$
- $X = 533.33$

OR

by options

- By selling an article for Rs. 550 a man gains something but by selling it at Rs. 650 he gains double the former gain what is the C.P.

A)450

B)550

C) 350

D)250

# Option A

- $CP = x$
- $SP = 550$
- $\text{Profit} = 550 - x$
- $\text{New Sp} = 650$
- $\text{New Profit} = 650 - x$
- $2(550 - x) = 650 - x$
- $1100 - 650 = x$
- $X = 450$

- By selling 10 apples a man gains the C.P of 1 apple what is the profit percent
- A)10%
- B)20%
- C)30%
- D)9%

# Option A

- $C_p \text{ of 1 apple} = x$
- $\text{Profit} = S_p \text{ of 10 apples} - C_P \text{ of 10 Apples}$
- $\text{Profit \%} = \text{profit} / c_p * 100$
- $\text{Profit \%} = (c_p \text{ of 1 apple} / C p \text{ of 1 apple} * 10 ) * 100$
- $\text{Profit \%} = 10 \%$



- By selling 10 mangoes a man gains **selling price** of 1 mango find the profit percent
- A)10 %
- B)11.11%
- C)21.11%
- D)None

# Option B

- Profit = SP of 10 Mangoes – CP of 10 Mangoes
- Profit = SP of one Mango
- SP of 1M = SP of 10 M – CP of 10 M
- CP of 10 M = SP of 10 M – SP of 1 M = SP of 9 M
- Profit % = Profit / CP \* 100
- Profit% = SP of 1 Mango / SP of Nine Mangoes \* 100
- Profit % = 11.11 %
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**THANKS  
FOR  
LISTENING**