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Profit And Loss Questions for SSC Exams

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QUESTIONS

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PROFIT AND LOSS QUESTIONS FOR SSC CGL/CHSL/MTS Tier I Level Exams

- 1. Some fruits are bought at 15 for 140 rupee and an equal number of fruits at 10 for 120 rupee. If all the fruits are sold at 132 rupee per dozen, then what is the profit percent in the entire transaction?
 - A. 3 1/8
 - B. 41/2
 - C. 3
 - D. 2 ¼
- 2. A trader bought 640 kg of rice. He sold a part of rice at 20% profit and the rest at 5% loss. He earned a profit of 15% in the entire transaction. What is the quantity (in kg) of rice that he sold at 5% loss?
 - A. 128
 - B. 132
 - C. 154

D. 256

- 3. Radha purchased a computer table for 10000 and a Centre table for 5000. She sold Computer tables with 8% profit. With what profit percent should she sell the Centre table so as to gain 10% on the whole transaction?
 - A. 18%
 - B. 12%
 - C. 14%
 - D. 10%
- 4. A sold an article to B at a profit of 25%. B sold it to C at a profit of 15%. The profit made by B is Rs.40 less than the profit made by A. What is the cost price (in Rs.) of the article for A?
 - A. 546
 - B. 400
 - C. 640

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- D. 240
- 5. Hari suffered a loss of 8% by selling an article. If he had sold it for Rs.300 more, he would have made a profit of 4%. Find his CP (in Rs.)
 - A. 2250
 - B. 2500
 - C. 2575
 - D. 2400
- 6. A trader sells an article at 16% below its cost price. Had he sold it for Rs.192.20 more, he would have gained 15%. The cost price (in Rs.) of the article is:
 - A. 720
 - B. 620
 - C. 640
 - D. 680
- 7. If selling price of 75 articles is equal to cost price of 60 articles, then the approximate loss or gain percent is :
 - A. Loss of 20%
 - B. No profit no loss
 - C. Profit of 5%
 - D. Loss of 30%
- 8. Ram sold a motorcycle for Rs 70000 at 25% profit. For what price should he sell a motorcycle to gain 30% profit?
 - A. Rs 72,800
 - B. Rs 72, 700
 - C. Rs 72,900
 - D. Rs 72, 600
- 9. Sulekha bought 36 kg of sugar for Rs. 1040. She sold it at a profit equal to the selling price of 10 kg of it. What is the selling price (in Rs.) for 5 kg of sugar?
 - A. 235
 - B. 215

- C. 220
- D. 200
- 10. A shopkeeper sells two refrigerator sets at the same price. He gains 40% on one refrigerator and losses 40% on the other. What is his net loss percentage in the whole transaction?
 - A. 16%
 - B. 18%
 - C. 14%
 - D. 12%
- 11. The profit earned after selling an article for Rs.8759 is the same as the loss incurred after selling the article for Rs. 6341. The profit percentage is
 - A. 18%
 - B. 15%
 - C. 20%
 - D. 12%

12. By selling 92 kg of wheat, a person gains the selling price of 12 kg of it. His gain percentage is:

- A. 12%
- B. 15%
- C. 18%
- D. 16%
- 13. A man buys 400 oranges for 2000. How many oranges can be sold for 260 so that he gets a profit of 30%?
 - A. 35
 - B. 30
 - C. 45
 - D. 40

14. Rakesh sold a car for ₹5,00,000 at a 28% profit. At what price should he sell it to get a 32% profit?

- A. Rs.5,15,615
- B. Rs.5,15,620
- C. Rs.5,15,630
- D. Rs.5,15,625

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- 15. By selling an article for Rs. 8,670, a man loses 15%. At what price (in Rs) should be sell it in order to make a profit of 15%?
 - A. 11,730
 - B. 13,370
 - C. 18,590
 - D. 23,560
- 16. Rajan purchased an LED TV set for Rs. 22500 and spent Rs. 800 on its transportation and Rs. 1000 on installation. At what price should she sell it so as to earn an overall profit of 20%?
 - A. 29170
 - B. 29160
 - C. 29150
 - D. 29180
- 17. A shopkeeper buys some notebooks at the rate of 12 for Rs. 222, and an equal number of notebooks at 10 for Rs. 225. If he sells all the notebooks at a profit of 20%, then the selling price of 15 notebooks is:
 - A. Rs. 302.40
 - B. Rs. 369
 - C. Rs. 376.5
 - D. Rs. 360
- 18. Two wrist watches were sold for Rs.1980 each. One wrist watch was sold at a profit of 10% and the other one at a loss of 10%. The entire
 - transaction resulted in:
 - A. a loss of Rs. 40
 - B. a loss of Rs. 99
 - C. a gain of Rs. 99
 - D. no profit no loss
- 19. A shopkeeper bought 840 kg of rice. A part of it was sold at 25% profit and the remaining at 10% loss and on the whole, the profit was 15%. What

was the quantity of rice which was sold at a 10% loss?

- A. 240 kg
- B. 220 kg
- C. 340kg
- D. 260 kg
- 20. A shopkeeper bought pens at the rate of ₹1,350 for 15 dozen and sold them at the rate of ₹ 495 for 5 dozen pens. His percentage profit or loss is:
 - A. Profit 10%
 - B. Profit 15%
 - C. Loss 15%
 - D. Loss 10%
- 21. A person sold an article at a loss of 12%. Had he sold it at a gain of 10.5%, he would have got Rs.112.5 more. What is the original selling price (in Rs.) of the article?
 - A. 440
 - B. 560
 - C. 552.50
 - D. 50
- 22. An article was sold at a loss of 24%. If it were sold for Rs. 1,596 more, then there would have been a gain of 18%. The cost price of the article is:
 - A. 3400
 - B. 3600
 - C. 3800
 - D. 4200
- 23. Joseph bought two woollen jackets for Rs. 2100 and Rs. 3150 respectively. By selling the first at a gain of k% and the second at a loss of k%, he found the selling price of both is the same. What is the value of k?
 - A. 20
 - B. 22.64C. 15

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D. 25

24. If a person sells a ceiling fan for Rs557.75, then he gets a 15% profit. To get a 20% profit, at what amount should he sell the fan?

- A. Rs572
- B. Rs589
- C. Rs596
- D. Rs582

25. By selling a pen for Rs26, a man loses onefourteenth of what it costs him. The cost price of the pen is:

- A. Rs27
- B. Rs39
- C. Rs38
- D. Rs28

26. Gaurav bought some articles at 5 for Rs.6 and sold them at 10 for Rs.11. His loss percentage is:

- A. 8 1/3%
- B. 7 1/3 %
- C. 7 2/3 %
- D. 8 2/3 %
- 27. When an article is sold for Rs. 438, there is a loss of 27%. To gain 23%, it should be sold for Rs. x. What is the value of x?
 - A. 600
 - B. 837
 - C. 678
 - D. 738
- 28. Ram sold a plot for Rs. 6,55,000 at 20% loss. For what price should he sell the plot to gain 15% profit?
 - A. Rs. 7,41,562.50
 - B. Rs.6,41,562.50
 - C. Rs. 8,41,562.50
 - D. Rs.9,41,562.50

- 29. By selling an article for Rs. 3150 a shopkeeper earns 5% profit. For how much money should he sell the article in order to gain 8%?
 - A. 3240
 - B. 3180
 - C. 3200
 - D. 3250
- 30. A shopkeeper sold an article for Rs. 3750. If he had charged 24% less, even then he would have earned a profit of 14%. What is the original cost of the article?
 - A. Rs. 2850
 - B. Rs. 2717
 - C. Rs. 3289
 - D. Rs. 2500
- 31. Kishore had a loss of 20% on selling an article for Rs7,160. At what price should he have sold the item to make a profit of 30%?
 - A. Rs11,635
 - B. Rs12,007
 - C. Rs10,678
 - D. Rs8,988
- 32. A T.V is sold at 8% gain . Had it been sold for *Rs*714 more, the gain would have been 15%. To gain 18% the selling price of the T.V should be:
 - A. Rs12,138
 - B. Rs12,036
 - C. Rs11,934
 - D. Rs12,240
- 33. On selling 38 balls at *Rs2*,240, there is a loss equal to the cost price of 6 balls. The cost price of a ball is equal to:
 - A. Rs50
 - B. Rs80
 - C. Rs70
 - D. *Rs*60

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- 34. A dealer sold an article at a loss of 2%. Has he sold it for *Rs*44 more, he would have gained 20%. Find the cost price of the article.
 - A. Rs 250
 - B. Rs 400
 - C. Rs 200
 - D. Rs 300
- 35. A man sells two articles at *Rs* 9,975 each. He gains 5% on one article and loses 5% on the other. Find his overall gain or loss.
 - A. Profit Rs 60
 - B. Loss *Rs* 50
 - C. Loss Rs 60
 - D. Profit Rs 50
- 36. On selling a bike for Rs.2500 a seller incurs a loss of 20%. What price would have caused him to lose 30%?
 - A. Rs 2185.5
 - B. Rs 2188.5
 - C. Rs 2186.5
 - D. Rs 2187.5
- 37. If Ravi sells an old scooter for Rs 18,000 then his loss incurred is 10%. If he sells it to gain a profit of 15%, then the selling price is:
 - A. Rs 20,000
 - B. Rs 22,000
 - C. Rs 24,000
 - D. Rs 23,000
- **38.** The cost price of 12 pens is equal to the selling price of 8 pens. The profit percentage is:
 - A. 45%
 - B. 55%
 - C. 50%
 - D. 40%
- **39.** The profit made by selling an article for Rs.8,800 is equal to the amount of loss incurred on selling

the same article for Rs.7,200. What will be the profit per cent, if it was sold for Rs.9,600?

- A. 20%
- B. 25%
- C. 18%
- D. 15%
- 40. An article is sold at a profit of 30%. If both cost price and selling price of the article are decreased by Rs.100, the profit now would be 45%. The original cost price of the article is:
 - A. 400
 - B. 250
 - C. 300
 - D. 500
- 41. The profit made by selling an article for Rs.13400 is equal to the amount of loss incurred on selling the same article at Rs.11600. What will be the profit if it is sold for Rs.14,750 (in Rs)
 - A. 2000
 - B. 2520
 - C. 2500
 - D. 2250
- 42. Sohan sold a plot for Rs.2,55,000 at a 15% loss. At what price should he sell the plot to gain a 10% profit?
 - A. 3,33,000
 - B. 3,30,000
 - C. 3,33,300
 - D. 3,00,000

43. If the cost price of 25 articles is equal to the selling price of 35 articles, find the profit/loss percentage.

- A. Loss- 28.57%
- B. Profit- 28.57%
- C. Loss- 18.93%
- D. Profit- 18.93%

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- 44. A shopkeeper purchased pens in bulk for Rs28 each. He sold each for Rs40. What was his profit percentage?
 - A. 42.85%
 - B. 28.40%
 - C. 38.75%
 - D. 48.12%
- 45. A dealer sold 6 sewing machines for ₹63,000 with a profit of 5%. For how much should he sell 8 machines if he intends to earn 15% profit?
 - A. ₹88,200
 - B. ₹92,000
 - C. ₹69,300
 - D. ₹92,400
- 46. Reena sold 48 articles for ₹2,160 and suffered a loss of 10%. How many articles should she sell for ₹2,016 to earn a profit of 12%?
 - A. 36
 - B. 40
 - C. 32
 - D. 28
- 47. A shopkeeper sold two articles for 10591 each. On one he gained 19% and on the other he lost 11%. What was his overall gain or loss Percentage (correct to one decimal place)?
 - A. Loss 2.7%
 - B. Loss 10%

ANSWERS

Fruit B: 10 for 120 => 30 for 360

Total of Fruit A and Fruit B => (30+30) fruits => (280+360)=>Rs.640

Total Cost Price of 60 Fruit is 640;

Selling Price = dozen for 132 => 12 for 132

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- C. Profit 5%
- D. Profit 1.8%
- 48. By selling 3 dozen oranges for Rs.405, a trader losses 25%. How many oranges should he sell for Rs. 288 if he needs to earn a profit of 20% in the transaction?
 - A. 16
 - B. 15
 - C. 18
 - D. 12
- 49. A shopkeeper bought 95 dozen oranges at Rs.4.50 each. 7dozen oranges were rotten and so were discarded. He sold the remaining oranges at Rs. 78 per dozen. What is his profit or loss per cent (to the nearest integer) ?
 - A. Profit, 45%
 - B. Profit,34%
 - C. Loss, 34%
 - D. Loss, 45%
- 50. Remi earns a profit of 20% on selling an article of a certain price. If she sells the article for Rs8 more, she will gain 30%.What is the original price of 16 such articles ?
 - A. Rs1,280
 - B. Rs1,152
 - C. Rs1,120
 - D. Rs1,200

1. ANS.A. 3 1/8 %

LCM of 15 and 10=30

Let total number of fruit=30

Fruit A: 15 for 140 =>30 for 280







=>60 for 660;	4.
Profit = (Selling price-Cost price)/ cost price	Let the
=>(660-640)/640*100	A sold
=>20/640 *100	B sold Profit 1
=>200/64 =>3 8/64 => 3 1/8%	Differe 18.75x
2. ANS.A.128	6.25x=
120% 95%	X=40/0
115%	Cost pr
	5. ANS
20 5	Let C.I
4 : 1	S.P. =
Ratio of quantity of rice sold 20% profit to 5% loss= 4:1	If S.P. =>300
Total 640 kg= $4x+1x=>5x$	12%=3
Quantity of rice sold at 5% loss= $640/5 *1 =>128$ kg	6. ANS
Total purchase = $10000+5000 = 15000$	Let the
Profit on computer table = 8% of 10000 =>800	Selling
For total profit of 10% = 10% of 15000=>1500	Diffor
Profit on centre table = $1500-800 = 700$	
Percentage profit on centre table= 700/5000 *100 =>70/5 =>14%	31x = 1 100x =

4. ANS.C.640

C.P be= 100x;to B = 125x; to C=115% of 125x= 143.75x made by B=143.75x-125x =>18.75x; ence in profit of B and A = 25x-=6.25x; 40 6.25 => 6.4;rice 100x=6.4*100=640; S.B.2500 P. = 100%92% = 104%; Difference = 104 - 92 = 12%300; C.P 100%=300/12 *100 =>2500 S.B.620 cost price = 100x;g price = 84x; (16% loss) g price after 15% profit = 115x; ence = 115x - 84x = 31x;92.2; 192.2/31 * 100 = 620;

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7. ANS.A. Loss of 20%
S.P *75 =C.P *60;
S.P :C.P=>60 :75 =>4 :5;
Loss%= (S.P-C.P)/C.P *100 =>1/5 *100 =>20%
8. ANS.A.Rs.72,800

125% of CP=70,000;

130%=>70000 /125 *130=72,800;

9. ANS.D.200

Selling price of 36 kg=36x;

Selling price of 10 kg=10x;

1040 + 10x = 36x;

26x = 1040;

x = 40;

Selling price of 5 kg sugar = $40 \times 5 = 200$;

10. ANS.A.16%

Always loss in such type of questions.

Loss=x²/100=40*40/100=16%

11. ANS.B.15%

First S.P = 8579; 2nd S.P. = 6341;

Difference = 8579 - 6341 = 2238;

Profit = Loss = = 2238/2=1119;

C.P = 8759 - 1119 = 7460

Profit % = 1119/7460 * 100 = 15%

12. ANS.B.15%

92SP - 92CP = 12SP;

80SP = 92CP;

CP : SP = 20 : 23;

 $Profit = 3/20 \times 100 = 15\%$

13. ANS.D.40

Cost price of each oranges=2000/400=5;

Profit of 30% of orange=>130/100 *5 =>6.5;

If each orange is Rs.6.5; for 260 => 260/6.5 => 40 oranges

14. ANS.D.Rs.5,15,625

128% of C.P=5,00,000;

132%= (5,00,000/128)*132 =Rs.515625;

15. ANS.A.11,730

(100-15)=85%=Rs.8,670

Profit 15%=115% => 8670/85 *115 =>Rs.11730;

16. ANS.B.29160

Total price spend=22500+800+1000=>24300

To get 120 %=>120*24300/100 =>29,160

17. ANS.B.Rs.369

12 Notebooks and 10 Notebooks= LCM=60;

12*5 books=60 books =222*60=Rs.1110;

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10*6 books=60 books =225*60=Rs.1350;

Total 120 books=1110+1350=2460;

C.P of 15 books = 2460/120 *15 = 307.5;

120% (20% profit) of Book price= 307.5 *120/100 =Rs.369;

18. ANS.A.a loss of Rs.40

Total S.P=1980+1980=3960;

First watch S.P=110% C.P=1980; C.P=1980/110 *100=1800

Second watch S.P=90% C.P=1980; C.P=1980/90 *100=2200;

Total C.P=1800+2200=4000;

Loss=4000-3960=Rs.40;

19. ANS.A.240 kg



Total 840kg= 5x+2x=7x;

Quantity of rice sold 10% loss =2x =>840/7 *2=>240kg;

20. ANS.A. Profit 10%

C.P. of 15 dozen pens = 1350

S.P. of 5 dozen pens = 495

S.P. of 15 dozen pens = $495 \times 3 = 1485$

Profit = 1485 - 1350 = 135

Profit %=135/1350 *100 =10%

21. ANS.A.440

Cost Price 100x;

Loss 12%=88x;

Gain 10.5%=110.5x;

Difference=110.5-88=22.5x=112.5;

22.5x=112.5; => x=5;

C.P=100x=500;

S.P=88x=88*5=440;

22. ANS.C.3800

Difference between loss of 24% and gain of 18% = 42%

42% = 1596

100% = 1596/42 * 100 = 3800

The cost price of the article = 3800;

23. ANS.A.20

 $2100 \times (100+k)/100 = 3150 \times (100-k)/100$

2100+21k = 3150-31.5k;

52.5k = 1050

k = 20;

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24. ANS.D.Rs 582
Selling price = 557.75 =115%
Let the cost price = 100% ;
Profit 20%=120%
120%=557.75/115 *120 =582
25. ANS.D.Rs.28
Selling Price=26;
C.P=26+x;
Loss X= 1/14 (26+x)
14x=26+x; x=2;
Cost Price 26+x=26+2=28;
26. ANS.A.8 1/3 %
5 articles C.P=Rs.6;
10 article C.P=Rs.12;
10 article S.P=Rs.11;
Loss %=(12-11)/12 *100 => 8 1/3%
27. ANS.D.738
Let, the $C.P = 100\%$
S.P at loss of 27% = 73% =438;
S.P at gain 23% = 123%
123% =438/73 *123 =>738;

28. ANS.D.Rs.9,41,562.50

80% (20% loss)=6,55,000;

115%=6,55,000/80*115 =9,41,562.50

29. ANS.A.3240

105%=3150;

108%=3150/105 *108=3,240;

30. ANS.D.Rs.2500

Cost Price=3750 $*\frac{76}{100}$ $*\frac{100}{114}$ =2500

31. ANS.A.Rs11,635

80%(20% loss)=7160;

130% (30% Profit)=7160/80 *130 =11,635;

32. ANS.B.Rs12,036

At 8% gain = 1.08x;

At 15% gain = 1.15x;

1.15x-1.08x = 714; 0.07x = 714;

x = 10200;

18% profit=118/100 *10200=12036;

33. ANS.C.Rs.70

38 S.P - 38C.P=6 C.P ((Loss)

32 C.P=38 S.P;

C.P/S.P=19/16;

S.P of one ball=2240/38;

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C.P of one ball=(2240/38)*(19/16)=70;

34. ANS.C.Rs200

Let cost price of article is 100%;

If he sold at 2% Loss, selling price is 98%;

If he sold at 20% Profit, selling price is 120%;

120%-98%=22%=44;

Cost price, 100%=44/22 *100 =200;

35. ANS.B. Loss Rs 50

CP of first article = 9975/105 * 100 = 9500;

CP of second article = 9975/95 * 100 = 10500;

Total CP = 9500+10500=20000; Total SP = 9975+9975=19950;

Loss = 20000-19950=Rs50;

36. ANS.D.Rs.2187.5

80% (20% loss) = 2500;

70% (30% loss) = 2500/80 *70 = 2187.5;

37. ANS.D.Rs 23,000

10% loss = 90%=Rs.18,000;

Profit (115%)=18000/90 *115=>23,000;

38. ANS.C.50%

C.P *12 pen = S.P *8 pen

C.P : S.P=8:12 =>2:3;

Profit %=(3-2)/2 *100 =50%

39. ANS.A.20%

CP of the article = (8800 + 7200)/2 = Rs.8000

Profit when article is sold at Rs.9600 = 9600-8000 = Rs.1600

Profit % = $1600/8000 \times 100 = 20\%$

40. ANS.C.300

Let the CP=10x; SP =13x;

Both C.P and S.P of the article are decreased by100

New CP=10x-100; New SP =13x-100;

Profit=C.P-S.P/C.P

13x-100 - 10x+100 = 45% (10x-100);

3x=45/100 (10x-100)

300x=450x-4500;

150x=4500;

x= 30;

The original cost price of the article = 10x = Rs.300;

41. ANS.D.2250

Let the cost price of an article = Rs. C;

13400 - C = C – 11600;

2C = 13400 + 11600 = 25000;

C = 12500;

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Profit when selling price is Rs. 14750 = 14750 - 12500 = 2250;

42. ANS.B.3,30,000

15% loss (85%)=2,55,000.

Profit 10% (110%)=2,55,000/85 *110 =3,30,000

43. ANS.A.Loss-28.57%

C.P*25=S.P*35

C.P:S.P=35:25 => 7:5;

Loss percentage=(7-5)/7 *100=28.57%

44. ANS.A.42.85%

C.P of each pen=28;

S.P of each pen=40;

Profit=(40-28)/28 *100

=>3/7 *100

=>42.85%

45. ANS.B. ₹92,000

Let CP of machine be x;

At 5% profit, on 6 sewing machines $6^{(105/100)}$ of x = 363000;

X = ₹ 10000;

Cost price for 8 machines= 8×₹10000 = ₹80,000;

To earn 15% profit,

S.P of 8 machines=115/100 *80,000=92000;

46. ANS.A.36

90% C.P of article=2160;

C.P (100%)=2160/90 *100=2400;

C.P of 48 article=2400; C.P of one article=2400/48=>50;

Profit of 12 %=>112% of 50 =>56;

For Rs.2016 Number of articles =>2016/56 =36 articles;

47. ANS.D. Profit 1.8%

Let the cost price of 1 unit = 100

Cost price of the first article = 119 unit = 119*100=11900;

Selling price of the first article = 119 unit = Rs.10591

Cost price of the second article = 89 unit = Rs.8900;

Selling price of the second article = 89 unit = Rs.10591.

Total CP : SP = (11900+8900) : (10591+10591)

=>20800 :21182;

Profit = (Selling price-Cost price)/ cost price *100

=>(21182-20800)/20800 *100

=>382/208

=>1.8% profit

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48. ANS.A.16

3 dozen=36 oranges

S.P of 36 oranges=405

C.P of 36 oranges= (405/75)*100=540

C.P of 1 orange=540/36=15

He needs to earn a profit of 20% in the transaction = (15/100) * 120=18;

For Rs.288 =>288/18 =16 oranges;

49. ANS.B. Profit, 34%

Cost price = $95 \times 12 \times 4.5 = 5130$

Selling price = $88 \times 78 = 6864$

Profit = 6864 - 5130 = 1734

Profit percentage=(1734/5130)*100 =33.8%=>34%

50. ANS.A.Rs1,280

Let CP = x;

At 20% profit = 1.2x; At 30% profit = 1.3x;

According to question 1.3x - 1.2x = 8; 0.1x = 8;

x = 80;

16x = 1280;

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