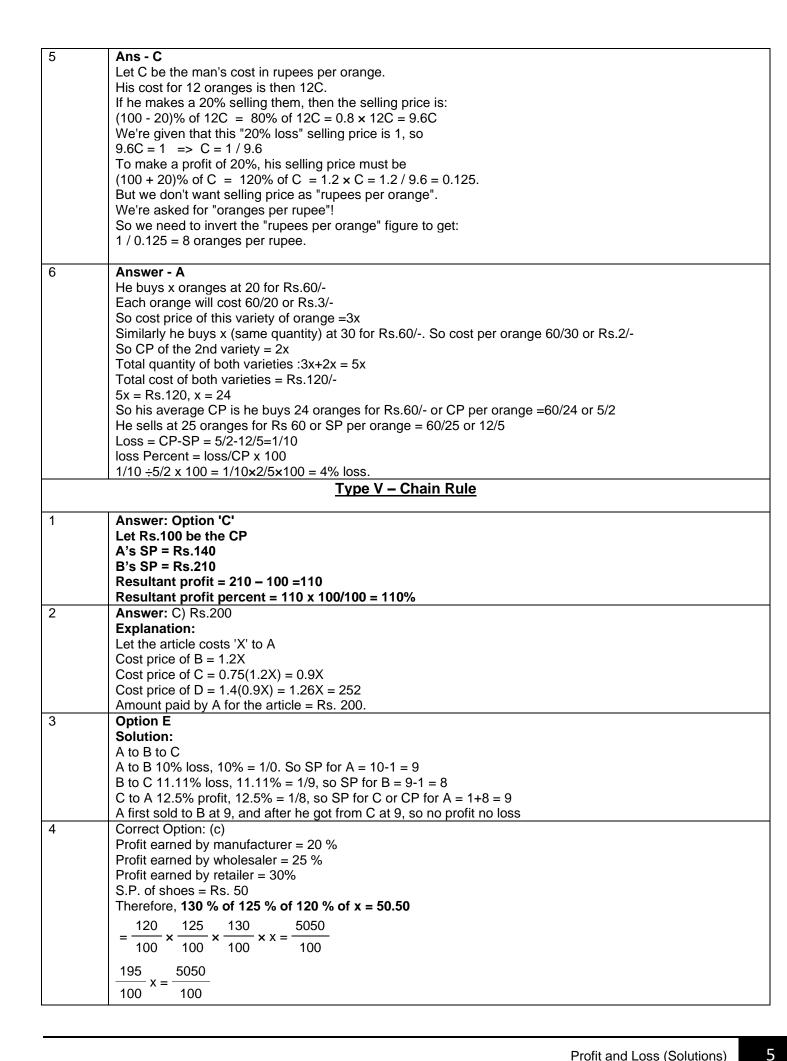
	Profit and Loss				
Q.No	Answer				
	Type I - Basic Questions				
1	Answer: Option 'B' SP = 115% of CP = Rs.9039/- :. CP = 9039 x 100/115 = Rs.7860/-				
2	Answer: Option 'C' Cost of 8 kg grapes = $70 \times 8 = 560$. Cost of 9 kg of mangoes = $55 \times 9 = 490$. Total cost he has to pay = $560 + 490 = 1055$.				
3	Answer: D) 1800 Explanation: least cost price = 200*8 = 1600 greatest sold price = 425 * 8 = 3400 profit required = 3400- 1600 = 1800				
	<u>Type II - P% / L%</u>				
1	Answer: Option B Explanation: Cost Price (C.P.) = Rs. $(4700 + 800)$ = Rs. 5500. Selling Price (S.P.) = Rs. 5800. Gain = (S.P.) - (C.P.) = Rs.(5800 - 5500) = Rs. 300. Gain % = $\left(\frac{300}{5500} \times 100\right)_{\%}$ = $5\frac{5}{11}\%$				
2	Answer: A) 90 Explanation: Total investment = Rs. (120 * 80 + 280 + (40/100) * 120 + 72). = Rs. (9600 + 280+48 + 72) = Rs, 10000. Sell price of 120 reams = 108% of Rs. 10000 = Rs. 10800. Sell Price per ream = Rs. [10800/120] = Rs. 90.				
3	Answer: C) 300% Explanation: Let the S.P = 100 then C.P. = 25 Profit = 75 Profit% = (75/25) * 100 = 300%				
4	Answer: Option 'B' SP = x CP = 2x/3 Profit = x-2x/3 = x/3 Profit percent = x/3 / 2x X 100/3 = x/3 X 3/2x X 100 =100/2 = 50%.				
5	Answer: Option 'D' Here, the Selling price only 60% of the Cost price; So, Cost Price = 5700 × 100/60 = 9500.				
6	Answer: Option 'C' Here, The SP is 142% of the CP; :. CP = 12496 × 100/142 = 8800. :. The net profit of the person = 12496 - 8800 = 3696.				
7	Answer: C) Rs.1260 Explanation: Let the new S.P be x, then (100 - loss%): (1st S.P.) = (100 + gain%): (2nd S.P.) ⇒(95/1140=105/x) => x = 1260				

8	Answer: Option 'D' Here, the SP is 75% of CP. CP = 1950 x 100/75 = Rs.2600. To get a profit of 30% the SP should be = 2600 + 30% of 2600= Rs.3380
9	Answer: D) 20 % Explanation: SP2 = 2/3 SP1 CP = 100 SP2 = 80 2/3 SP1 = 80 SP1 = 120 100 20 => 20%
10	Answer: A) 100% Explanation: Let the C.P be Rs.100 and S.P be Rs.x, Then The profit is (x-100) Now the S.P is doubled, then the new S.P is 2x New profit is (2x-100) Now as per the given condition; => 3(x-100) = 2x-100 By solving, we get x = 200 Then the Profit percent = (200-100)/100 = 100 Hence the profit percentage is 100%
11	Answer: A) Rs. 2000 Explanation: Let C.P. be Rs. x. Then, = $ > \frac{1920-x}{x} * 100 = \frac{x-1280}{x} * 100 $ => $ 1920 - x = x - 1280 $ => $ 2x = 3200 $ => $ x = 1600 $
12	Required S.P. = 125% of Rs. 1600 = Rs(125/100*1600) = Rs2000 Answer: Option 'B' Let 'x' be the CP of the article; Then 900 - x = 2(x - 450); :. x= 600. 25% of 600 = 150 :. New SP = 600 + 150 = 750
13	Answer: C) 20% Explanation: 103.33 CP- 0.95 CP = 65 CP = Rs. 780 profit (%) = (936 - 780)/780 x 100 = 20%
14	Answer: C) Rs. 500 Explanation: 110% of S.P. = Rs. 616 S.P. = (616 x 100)/110 = Rs. 560 C.P = (110 x 560)/112 = Rs. 500
15	Answer: C) Rs 200 Explanation:

	Let original Cost price is x Its Selling price = (105/100) * x = 21x/20 New Cost price = (95/100) * x = 19x/20 New Selling price = (110/100) * (19x/20) = 209x/200 [(21x/20) - (209x/200)] = 1 => x = 200					
16	Option C Solution: Use shortcut for these type of questions: CP of article = 75 × 100/ [5 - (-10)] (+5 for 5% profit, -10 for 10% loss) So SP at 15% profit = 115/100 * CP = (115/100) * [75 × 100/15] = Rs 575					
17	Answer: Option B Explanation: Let C.P.= Rs. 100. Then, Profit = Rs. 320, S.P. = Rs. 420. New C.P. = 125% of Rs. 100 = Rs. 125 New S.P. = Rs. 420. Profit = Rs. (420 - 125) = Rs. 295. Required percentage = $\left(\frac{295}{420} \times 100\right)_{\%} = \frac{1475}{21}\% = 70\%$ (approximately).					
	Type III - Equation Based / Rate given					
1	Answer: Option 'D' There is a loss. Percentage of loss = 5 - 3/5 × 100 = 40%.					
2	Answer: Option 'D' Because the cost price of 50 oranges = Selling price of 40 oranges The profit is 10 oranges out of 40 oranges; therefore, the profit percent = 10 × 100/40 = 25%.					
3	Answer: Option B Explanation: Let C.P. of each article be Re. 1 C.P. of x articles = Rs. x . S.P. of x articles = Rs. 20. Profit = Rs. $(20 - x)$. $\therefore \left(\frac{20 - x}{x} \times 100 = 25\right)$ $\Rightarrow 2000 - 100x = 25x$ $125x = 2000$ $\Rightarrow x = 16$					
4	Option B Solution: Profit = SP - CP CP of 5 articles = SP of 20 article - CP of 20 articles So CP of 25 articles = SP of 20 articles Profit% = 5/20 * 100 = 25%					
5	Correct Option: A According to the question, SP of 25 m of cloth – CP of 25 m of cloth = SP of 5 m of cloth ∴ CP of 25 m of coth = SP of 20 m of cloth To solve this question, we can apply a short trick approach If the cost price of x articles is equal to the selling price of y articles, x - y then the profit percentage = x is the number of articles the cost price of which is given = 25 y is the number of articles the selling price of which is given = 20 By the short-trick approach, we get					

	Profit percent = $\frac{25-20}{20} \times 100 = \frac{5}{20} \times 100 = 25\%$			
	20 20 20			
6	Hence, option A is correct. Answer: B) Rs. 60			
0	Allswer. b) RS. 60			
	Explanation:			
	Let the cost price of a ball is Rs.x			
	Given, on selling 17 balls at Rs. 720, there is a loss equal to the cost price of 5 balls			
	The equation is : 17x - 720 = 5x			
	Solving the equation			
	we get $x = 60$ Therefore, cost price of a ball is Rs. 60.			
	·			
7	Answer: Option 'A' The cost of two tables + three chairs = 5600.			
	Multiply each term by 3, we get,			
	Cost of 6 table + 9 chairs = 16800.			
8	Answer: Option 'A'			
	Cost of 36 microwaves + 12 cookers = Rs.84126. Dividing each term by 6, we get			
	6 microwaves + 2 colours = Rs.14021.			
	Type IV – 2 varieties mixed / Different rate purchase and sell			
1	Answer: Option 'B'			
	4 bananas> 5/-			
	5 bananas> 4/- Note: In every time same in the cost price articles and selling price articles.			
	5(4 5) ==> 20 25 = Cost price			
	4(5 4) ==> 20 16 = Selling price Then, 9/25 x 100 = 36 % Loss			
2	Answer: Option 'B' 9 balls> Rs.10/-			
	10 balls> Rs.9/-			
	Note: In every time same in the cost price articles and selling price articles. 10(9 10) ==> 90 100 = Cost price			
	9(10 9) ==> 90 100 = Cost price			
	Then, 19/100 × 100 = 19 % Loss			
3	Option D			
	Solution: Let he buys 6 toffees			
	Case 1: 3 toffees per Re so 6 toffees for Rs 2			
	Case 2: 2 toffees per Re so 6 toffees for Rs 3 Total CP of 12 toffees = 2+3 = 5			
	Now he sold at 3 for Rs 2. So 12 toffees for Rs 8			
4	Now CP = Rs 5, SP = Rs 8, so profit% = 3/5 * 100 = 60% profit Option D			
-	Solution:			
	. Quantity Rupee CP 3 1			
	CP 3 2			
	SP= 1 1 (*3 to make quantity equal) hence Sp 3 3			
	hence Sp 3 3 Total Cp of 6 toffee= 3			
	Sp og 6 toffee=6			
	hence %p=100%			



	5050 × 100			
	$x = \frac{3030 \times 100}{195 \times 100}$			
	x = 25.89 Cost price of shoes = Rs. 25.89			
	Type VI- Partial Selling			
1	Answer: A) 35%			
	Explanation:			
	Given the cost price of the articles = Rs. 450			
	To get overall 20% gain,			
	Total Selling Price = $(20/100) \times 450 = 540$ One third of the CP = $1/3 \times 450 = Rs$. 150			
	But given 1/3 of articles are sold at 10% loss			
	S.P of 1/3 of articles = 90% of 150			
	$= 90 \times 150/100 = 135$			
	Then, S.P on remaining 2/3 goods must be			
	= 450 - 135 = 405(1) CP on remaining goods			
	$= 2/3 \times 450 = 300 \dots (2)$			
	Profit = SP - CP = 405 - 300 = 105			
	Profit % = (105/300) x 100			
	= 35%			
2	Answer: A) Rs.37,500			
	Evulanation			
	Explanation:			
	Assume A be the cost price.			
	Therefore,			
$\left(\frac{3}{5}\times\mathbf{A}\times\frac{10}{100}\right)-\left(\frac{2}{5}\times\mathbf{A}\times\frac{5}{100}\right)=1500$				
	=> A = Rs 37,500.			
3	C) No profit No Loss			
4	Answer: A) Rs. 620			
	Explanation: Let the C.P of one item is Rs. P			
	and that of other is Rs. (7500 - P)			
	According to the data given			
	C.P = S.P			
	=> Px(116/100) + (7500-P)x(86/100) = 7500 => 30P = 105000			
	=> P = 3500			
	Required difference between selling prices			
	= Rs. [(3500/100) x 116] - [(4000/100) x 86]			
	= 4060-3440 = Rs. 620			
	- NS. 020			
5	Correct Option: (a)			
	Now, in this numerical, there is no common loss and gain %.			
	Hence, solve it making equations.			
	Let cost price of camel be x.			
	As cost of camel and carriage = Rs 5000			
	Cost of carriage = Rs. $(5000 - x)$			
	After selling camel he gains 20% and on carriage a loss of 10%. But on the whole he gains 3%.			
	Therefore,			
	20% of $x - 10$ % of $(5000 - x) = 3$ % of 5000			
	120/001 A = 10/001 (0000 = A) = 3/001 0000			

	$\frac{20}{100} \times x - \frac{10}{100} \times (5000 - x) = \frac{3}{100} \times 5000$				
	$\frac{x}{5} - \frac{(5000 - x)}{10} = 150$				
	$\frac{10x}{5} - \frac{(5000 - x) \times 10}{10} = 150 \times 10$				
	2x-5000+x=1500				
	3x=1500+5000 x=2166.67				
	X=2100.07				
	The cost of camel = Rs. 2166.67 Option (a) is the correct answer				
6	Correct Option: (c)				
	Generally in such cases, there is always loss. So always remember, when two materials are sold and if one material gets profit and the other gets a loss, then use the trick shown below to calculate the loss.				
	Loss% = $ \left[\frac{\text{Common loss and gain%}}{10} \right]^2 = \left[\frac{x}{10} \right]^2 $				
	Therefore, here common loss and gain % = 15%				
	Hence,				
	Loss% = $\left[\frac{15}{10} \right]^2 = 2.25\%$				
7	Answer: D) None of the above				
	Explanation: The CP of profitable cow = 9900/1.1 = 9000 and profit = Rs. 900 The CP of loss yielding cow = 9900/0.8 = 12375 and loss = Rs. 2475 so, the net loss = 2475 - 900 = 1575				
	so, the net loss = 2475 - 900 = 1575				
8	Option D Solution:				
	profit 25% = 125, loss 10% = 90. Let SP of each mobile = LCM of (125 and 90) = 2250				
	So CP1 = 100/125 * 2250 = Rs 1800, and CP2 = 100/90 * 2250 = Rs 2500 So total SP = 2250+2250 = Rs 4500				
	Total CP = 1800+2500 = Rs 4300				
	So gain% = (4500-4300)/4300 * 100 = 200/43% OR use formula:				
9	gain/loss% = $[100(25 - 10) - 2(25)(10)] / [(100+25) + (100-90)] = (1500-500)/215 = +200/43%$ Correct Option: (b)				
	Here, we just know the selling price and the gain and loss incurred, on two cameras. Therefore, first calculate the cost price of both the cameras, because gain or loss is calculated on the cost				
	price of the material. Hint:				
	When shopkeeper earns profit, Cost Price = $\frac{100}{(100 + \text{Gain}\%)} \times \text{S.P.}$				
	When shopkeeper incurs loss, Cost Price = $\frac{100}{(100 - \text{Loss\%})} \times \text{S.P.}$				
	C.P. of camera A = $\frac{100}{(100 + 20)} \times 7500 = \frac{100}{120} \times 7500 = \text{Rs. } 6250$				
	C.P. of camera B = 100 × 8550 = 100 × 8550 = Rs. 9000				

	(100 – 5) 95						
	Total C.P. = Cost of camera A + Cost of camera B Total C.P. = 6250 + 9000 = Rs. 15250 Total S.P. = 7500 + 8550 = Rs. 16050						
	Selling Price > Cost Price, hence man gains during this transaction. Gain = S.P. – C.P. = 16050 – 15250 = Rs. 800						
	$Gain\% = \frac{Gain}{C.P.} \times 100$						
	Gain% = $\frac{800}{15250}$ × 100 = 5.24%						
10	Answer: B) 3.125 %						
	Explanation:						
	Taking the 2 investments to be $3x$ and $5x$ respectively Total income of Raghu = $(3x) \times 1.25 + (5x) \times 0.9 = 8.25$ Therefore, Gain% = $0.25/8 \times 100 = 3.125 \%$.						
	Type VII - Dishonest Seller						
1	Answer: Option 'C' Let the cost price of 1kg good = 100 He sells for 100, what he got for 90, then his gain =100 – 90 = 10 :. His gain per cent = 10/90×100 = 100/9 = 11 1/9%.						
2	Correct Option: (d)						
2	Gain% = $\left[\frac{\text{Error}}{(\text{True weight} - \text{Error})} \times 100\right]\%$						
Error = True weight – False weight Error = 1000 – 970 = 30							
	Gain% = $\left[\frac{30}{(1000 - 30)} \times 100 \right]$ %						
3	Correct Option: (b)						
	Let weight of grocery bag be 1000 gm. Now, the shopkeeper sells his grocery using weights 10 % less than true weights. Hence, actual weight of bag = 90 % of 1000 gm = 900 gm If each gram = Re.1, C.P. of each bag containing 900 gm = Rs. 900 The shopkeeper sells with a gain of 30 % on true C.P.						
Calculate the S.P. Selling Price = $\frac{(100 + \text{Gain\%})}{100} \times \text{C.P.}$							
							Therefore,
	Selling Price = $\frac{130}{100}$ × Rs. 1000 = Rs. 13000						
	Gain = S.P. – C.P. = 1300 – 900 = Rs. 400						
	$Gain\% = \frac{400}{900} \times 100 = 44.44\%$						
4	Correct Option: (c)						

	Gain% = $\left[\frac{\text{Error}}{(\text{True weight} - \text{Error})} \times 100\right] \%$					
	We are given that, dealer gains $4 \frac{8}{23}$ % after selling the goods at cost price.					
	Let error be x.					
	$4\frac{8}{23}\% = \left[\frac{x}{(1000-x)} \times 100\right]\%$					
	$\frac{100}{23} = \left[\frac{100x}{(1000 - x)} \right] \%$					
	(1000 - x) = 23 x $1000 = 24 x$					
	x = 41.66					
	False weight = True weight - Error False weight = 1000 - 41.66 = 958.34 gms					
	The false weight used by the dealer is 958.34 grams.					
5	Answer : A) 50%					
	Explanation:					
	CP of 1000gm = Rs. 10					
	SP of 800gm = Rs. 12					
	SP of 1000gm =12x1000/800 = Rs. 15					
	Now take 1000gm as reference to calculate profit.					
	Profit=SP-CP=15-10=Rs. 5					
	Profit % = 5x100/10 = 50%					
6 Option C						
	Solution:					
	Profit is 20%. So					
	1000 gm + 20% of 1000 gm = 1200 gm so CP of 1200 gm = SP of 800 gm					
	Sp profit% = (1200-800)/800 * 100 = 50%					
7	Sp profit% = (1200-800)/800 * 100 = 50% B) 21%					
'						
	Explanation:					
	Gain % = $\left(\frac{(100 + common \ gain \ \%)^2}{100} - 100\right)$ %					
	$(100+10)^2$					
	$= \left(\frac{(100+10)^2}{100} - 100\right)$					
	(255)					
	= 21%					
Type VIII - Discount						
1	Correct Option: (d)					
	Let cost price goods be Rs. 100					
	Marked price (Selling Price) marked by the shopkeeper on goods = Rs. 130					
	He sells the goods at a discount of 15 %					
	Therefore,					
	Selling price = 85 % of Rs. 130 = Rs. 110.50					
	Gain = S.P. – C.P. = 110.5 – 100 = 10.50 %					
	Alternate solution:					
	He sells the goods at a discount of 15 %					

	15% discount on Rs. 130 = Rs. 19.50
	Selling Price = Marked Price - Discount = 130 - 19.50 = Rs. 110.50
2	Correct Option: A Let the original price be x, then
	30% of x = 82.50
	$x = \frac{82.50}{30} \times 100 = Rs. 275$
	Deepa bought calculator in 275 – 82.50 = Rs. 192.50 Hence, option A is correct.
3	Correct Option: D Method I: Let C.P. = Rs. 100. Then, marked price = Rs. 120.
	∴ S.P. = 90% of Rs. 120 = Rs. 108
	∴ Gain % = 8%
	Method II: To solve this question, we can apply the net% effect formula
	$x + y + \frac{xy}{100}$
	Let's take x = 20% and y = - 10%
	By the net% effect formula, we get
	$= 20 - 10 - \frac{20 \times 10}{100} = 20 - 10 - 2 = 8\%$
	Hence, option D is correct.
4	Correct Option: A For this question we can apply a short trick approach
	$\left(\frac{x+y}{100-y}\right) \times 100\%$
	where $x = gain\%$ after allowing the discount = 17%,
	And y = discount offered on marked price = 10%
	Now, on putting values of x and y in the short trick approach, we get
	$= \frac{17+10}{100-10} \times 100 = \frac{27}{90} \times 100 = 30\%.$
	Hence, option A is correct.
5	Correct Option: C By hypothesis let the labelled price of the vegetables be Rs. 100
	after 15% discount the shopkeeper buy them for rupees 85.
	New price after 20% profit = $\frac{120}{100} \times 85 = 102$
	This is the price after 10% discount on marked price
	i.e. MP is Rs. $\frac{102 \times 100}{90} = 113.33$

	So, the marked price is 13.33% more then labelled price.					
	Hence, option C is correct.					
6	C) 14.50%					
	Single equivalent discount =					
	$= (10 + 5 - \frac{10 \times 5}{100}) \% = 14.5\%$					
	Hence option [C] is correct answer.					
7	Correct Option: C					
	We can find the equivalent discount by applying the net % effect formula twice.					
	Net % effect = $x + y + \frac{xy}{100}$ %					
	100					
	For 1st two discounts, Here, $x = -15$, $y = -20$					
	1 of 1 two discounts, riere, x = - 15, y = - 20					
	15 × 20					
	$=-15-20+\frac{15\times20}{100}=-35+3=-32\%$					
	Applying the net % effect formula once again, we get					
	$=-32-25+\frac{32\times25}{100}=-57+8=-49\%$					
	100					
	• Single equivalent discount – 40%					
	∴ Single equivalent discount = 49%.					
	Hence, option C is correct.					
8	Option D					
	Solution:					
	Let the CP be Rs. 100					
	SP = 150 * (88/100) * (86.5/100) = Rs. 114.18					
	Therefore , = (14.18/100)*100 =14.18%					
9	Option D					
	Solution:					
	Required MP = [210 * (100+20)]/(100-12.5) = (210 *120)/87.5 = Rs. 288					
10	Option D					
	Solution:					
	Fanta *0.9*0.75 = Coke *0.85*0.80					
44	Fanta/Coke = 136/135					
11	Correct Option: D Let the first discount be x%.					
	Let the hist discount be x /o.					
	Then, 85% of $(100 - x)$ % of $200 = 136$					
	or, $\frac{85}{100} \times \frac{(100 - x)}{100} \times 200 = 136$					
	01, 100 100 200 = 130					
	or, $8500 - 85x = 136 \times 50 = 6800$					
	or, 85x = 1700					
	01, 00% = 1700					
	∴ x = 20%					
	Hence, option D is correct.					
12	Correct Option: C					
	Let the first discount be x%.					
	Then, 85% of $(100 - x)$ % of $1000 = 714$					
	85 (100 – x) 4000 744					
or, $\frac{85}{100} \times \frac{(100 - x)}{100} \times 1000 = 714$						

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or, 8500 - 85x = 714 \times 10 = 7140
           or, 85x = 1360
           ∴ x = 16\%
           Hence, option C is correct.
13
           Answer - C
           Let marked prize was Rs. 100. The trader buys at discount of 20%.
           Hence, his cost price = 100 - 20\% of 100 = Rs. 80.
           He wants to make profit 25%, hence his selling price,
           = 80 + 25\% of 80 = Rs. 100.
           However; he wants to get this Rs. 100 after allowing a discount of 20% i.e. he will sell at 80% of his marked
           price. Hence, his marked price,
           = 100/0.8 = Rs. 125 which is 25% more than original marked price.
14
           Answer - C
           Let CP of the item = X.
           As he gets 55% profit, so,
           SP = X + 55\% of X = 1.55X
           It is given that he incurs loss by selling 25 articles at the cost of 21 articles Loss = (25 - 21)/25 = 16%.
           Now, His,
           SP = SP - 16\% \text{ of } SP = 0.84*SP
           So.
           This SP must be equal to actual SP.
           0.84SP = 1.55X
           SP = 1.55X/0.84 = 1.84X ----(1)
           This selling price come after allowing 25% discount on MP.
           Let MP = Y
           SP = Y - 25% of Y
           1.84X = 0.75Y
           Y/X = 1.84/0.75
           Y/X = 63/155
           So,
           CP: SP = 63: 155.
15
           D) CP : MP = 2 : 5
           Step-by-step explanation:
           Let Cost Price be Rs. 100
           Now, He allows a 20% discount
           ⇒ Cost Price = 100 - 20% of 100
                        = 100 - 20
                        = Rs. 80
           Also, Total articles sold = 5 ( Purchased) + 3 (Given free on purchase of 5)
           So, Cost Price of one Article = 80/8
                                          = Rs. 10
           Now, He earns profit of 25%
           So, Marked Price = 100 + 25% of 100
                             = 100 + 25
                             = Rs. 125
           Number of articles which are charged = 5
           So, Marked Price of one article = 125/5
                                             = Rs. 25
           Now. CP: MP = 10: 25
           \Rightarrow CP : MP = 2 : 5
           Ratio of selling price and Cost Price,
16
           SP: CP = 12:9 = 4:3
           Profit of 3 oranges = Rs. 1 (Let CP = Rs. 1)
           Profit =
           1313
```

= 33.33%and, Discount = 11.11% Since, CP: SP: MP = 3:4:4.5 Profit doubles that of discount. So, % point discount = 33.33% - 11.11% = 22.22% point. **Detail Explanation:** 12 C.P = 9 S.P,So profit % = 12C.P.-9C.P.9C.P.12C.P.-9C.P.9C.P. = 33.33.Then it is said that, 5 SP - 5 CP = 10 MP -10 SP From that we get relation between MP and SP, that is, 27 SP = 24 MP(With help of 12 CP = 9 SP)THEN DISCOUNT % = MP-SPMPMP-SPMP = 11.11% So, % point discount 33.33% - 11.11% = 22.22% 17 Type IX - Miscellaneous Examples 1 Correct Option: A To solve this question, we can apply a short trick approach Reduced price = $(\frac{Ax}{100n})$ per kg Original price = $(\frac{Ax}{(100 - x)n})$ per kg Where, 'x' is the percentage of reduction in the price of an article = 20% 'n' is the increased weight after the reduction of price = 2 kg 'A' is the price of increased weight = ₹ 30 The reduced price of rice = $\frac{30 \times 20}{100 \times 2}$ = ₹ 3 per kg. The original price of rice = $\frac{30 \times 20}{(100 - 20)2} = \frac{15}{4}$ = ₹3³/₄ per kg Hence, option A is correct. 2 Correct Option: B To solve this question, we can apply a short trick approach Original price = $(\frac{Ax}{(100 + x)n})$ per kg

Where,

'x' is the percentage of hike in the price of an article = 10%

'n' is the decreased weight after the hike of price = 2 kg

'A' is the price of decreased weight = ₹ 110

The original price of rice = $\frac{110 \times 10}{(100 + 10)2} = \frac{1100}{220}$

= 110 = ₹ 5 per kg

22		
Hence option B is correct		