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MATERIAL







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PROFIT & LOSS

INTRODUCTION

This chapter can be considered as an extension of percentage with only difference in the terminology usage. The terms used in percentage are CP value, SP value, percentage increase, etc., but the similar terms are used as cost price, selling price, profit percentage, etc. in profit, loss, and discount. Let us understand the different concepts and learn problem-solving methods for these concepts.

TERMINOLOGY

Cost Price

The price (amount) paid to purchase a product or the cost incurred in manufacturing a product is known as the cost price (CP) of that product.

Selling Price

The price at which a product sold is called selling price (SP) of the product.

Marked Price

The marked price or the mark-up price (MP) is the price that the shopkeeper/retailer fixes in the anticipation of some discount that they may be asked by a customer.

Methodology

In any method going forward & backward (both ways) must be easy i.e. CP→SP or SP→CP. So that a student can easily calculate CP or SP as per question requirement. Few methods are discussed below

Percentage change as addition

Thought process:

$$40(CP) \xrightarrow{20\% \text{ of } 40=8} 48(SP)$$

Now, think in reverse manner:

It is difficult to find CP value if SP value is already given in the question.

Percentage change as Multiple

Thought process:

Think % increase and decrease in following way:

$$20\% \uparrow = 1.20$$

 $30\% \uparrow = 1.30$
 $20\% \downarrow = 0.80$

$$40(CP) \xrightarrow{20\%^{\uparrow}} \mathbf{48} (SP)$$

This concept is easy and very useful.

Now, think in reverse manner:

?
$$\xrightarrow{20\%^{\uparrow} \to \times 1.2}$$
 48(SP)

In case of reverse just divide 48 by 1.2 as rather multiply. 48/1.2 = 40 (CP)

Percentage change as fractions

Thought process:

Think % increase and decrease in following way:

$$20\% \uparrow = \frac{20}{100} = \frac{1(\text{change})}{5} \rightarrow \frac{5+1}{5} \rightarrow \frac{6(\text{SP})}{5(\text{CP})}$$

Now Compare

$$\frac{6(SP) \xrightarrow{\times 8} ?}{5(CP) \xrightarrow{\times 8} 40} \rightarrow \frac{48}{40}$$

Finally

$$40(CP) \xrightarrow{\frac{1}{5} \rightarrow \frac{6}{5} \rightarrow \frac{?}{40} \rightarrow \frac{48}{40}} 48(SP)$$

Now, think in reverse manner:

?
$$\xrightarrow{20\%\uparrow\rightarrow\frac{6}{5}}$$
 \rightarrow 48(SP)

If $6 \rightarrow 48$ Then $1 \rightarrow 8$

So, $5 \rightarrow 40$

In all above methods percentage as multiple is quick and easy for profit and loss chapter.

APPLICATION OF % TO PROFIT AND LOSS

Follow two-step process

STEP1 - Always write Percentage (%) terms in decimals (see table below)

For profits add into 100 while for loss minus from 100

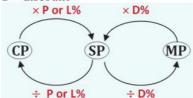
(+) ↑ Profits gain- increase (100+)		(-)↓Loss-decrease Discount (100-)		
5%	1,05	5%	.95	
10%	1.10	10%	.90	
25%	1,25	25%	.75	

STEP2 – If you have to calculate SP always multiply P (decimal) with SP

P = profit

L =Loss

D = discount



Explanation:

Find CP if SP is 420 and loss is 20%.

Solution: $20\% \rightarrow 0.80$

From above $SP \xrightarrow{+L\%} CP$

 $420 \xrightarrow{\div 0.80} 525$

Find SP if MP is 420 and discount is 20%.

Solution: $20\% \rightarrow 0.80$

From above $SP \xrightarrow{\times D \%} CP$

 $420 \xrightarrow{\times 0.80} 336$

So using above flow diagram you can jump any way i.e $CP \leftrightarrow SP \leftrightarrow MP$

TYPE

The cost price of 15 articles is same as the selling price of 10 articles. The profit percent is:

Solution:

(c) Given 15 CP = 10 SP $\frac{CP}{SP} = \frac{10}{15} = \frac{2}{3}$ (Profit) Profit % = $\frac{Profit}{CP} \times 100 = \frac{1}{2} \times 100 = 50\%$

TYPE

A nan sells two pipes at Rs. 12 each, He gains 20% on one and loses 20% on the other. II, the whole transaction, there

Solution:

As we know $SP \xrightarrow{\div P \text{ or } L\%} CP$ $12 \xrightarrow{\div 1.2} 10 \text{ (Pipe-I)}$ $24 \rightarrow 25$ Loss = 25-24 = 1Rs

TYPE

By selling an article for Rs. 240, a man incurs a loss of 10%. At what price should he sell it, so that he makes a profit of 20%

Solution:

$$\frac{240}{0.9} (CP) \longleftrightarrow \frac{10\%^{\downarrow}}{+0.9} 240 (SP)$$

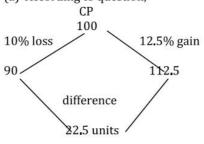
$$\frac{240}{0.9} \xrightarrow{\times 1.2} \frac{20\%^{\uparrow}}{0.9} \times 1.2 = 320$$

TYPE

An article is sold at a loss of 10%, Had it been sold for Rs, 9 more there would have been a gain of 25/2 % on it. The cost price of the article is:

Solution:

(a) According to question,



22.5 units = 9 $1 \text{ unit } = 9 \times \frac{2}{45}$ 100 units $2/5 \times 100$ = Rs. 40

TYPE

By selling a plot of land for Rs. 45,000 a person loses 10%. At what price should he sell it to gain 15%

Solution:

(c) According to question $100(CP) \xrightarrow{10\% loss} 90 (SP) \xrightarrow{\times 500} 45000 (Given)$ 90 units \rightarrow 45000 1 unit \rightarrow 500 $100 \text{ unit} = 500 \times 100 = 50000$

= Rs. 50000

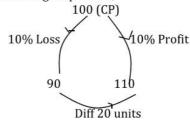
To gain $15\% = 15/100 \times 50000 = Rs. 7500$

Thus, SP = 50000 + 7500 = Rs. 57500

A man sells an article at 10% loss. If he had sold it at Rs. 10 more, he would have gained 10%. The cost price of the article is

Solution:

(a) Let CP of the article = 100 units According to question,



20 units \rightarrow Rs. 10

1 unit $\rightarrow \frac{1}{2}$

100 units $\rightarrow \frac{1}{2} \times 100 = 50$

Thus, CP of the article is = Rs. 50

Previous year questions

- The cost price of 36 books is equal to the selling price of 30 books. The gain percent is:
 - (a) 20%
- (b) 100/6
- (c) 18%
- (d) 494/6

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The cost price of 15 articles is same as the selling price of 10 articles. The profit percent is:

3.	price of 3 articles. The g (a) 20% gain (b) 2	45% rticles is the same as the cost		If the cost price of 12 pens is equal to the selling price of 8 pens, the gain percent is: (a) 100/3% (b) 200/3% (c) 25% (d) 50% The cost price of 8 articles is equal to the selling price of 9 articles. The profit or loss percent in the
4.	If 3 toys are sold at the kind, the profit will be:- (a) 25% (b) 1 (c) 200/3% (d) 5	cost price of 4 toys of the sam 100/3% 50%		transaction is. (a) 25/2% loss (b) 25/2% profit (c) None of these (d) 100/9% loss If the selling price of 16 items is equal to the cost price of 20% items, then the gain or loss percentage.
5.	If the cost price of 15 ta price of 20 tables, the lo (a) 20% (b) 3		10	(a) gain of 25% (b) gain of 20% (c) loss of 20% (d) loss of 4%
6.	(c) 25% (d) 3	37.5% icles is equal to the selling	19.	If the cost price of 10 articles is equal to the selling price of 7 articles, then the gain or loss percent is: (a) 51% gain (b) 300/7% gain
	(a) 15% (b) 2 (c) 25% (d) 1	20% 18%	20.	(c) 35% loss (d) 300/7% loss A coconut merchant finds that the cost price of 2750 coconuts is the same as the selling price of 2500
7.	The ratio of cost price a loss percent is : (a) 20%	and selling price is 5 : 4, the		coconuts. His loss or gain will be (a) 5% (b) 10% gain (c) 15% loss (d) 20% gain
8.	(c) 40% (b) 2 The ratio of the C. P. and What is the gain percent	d S. P. of an article is 20: 21.	21.	If the cost price of 15 books is equal to the selling price of 20 books. The loss percent is. (a) 16 (b) 20
9.	(a) 5% (c) 6% (b) 5 If selling price of an art	5.5% (d) 6.259 icle is 8/5 times its cost price		(c) 24 (d) 25 If the cost price of 10 articles is equal to the selling price of 16 articles, then the loss percent is
10	(c) 40% (d) 6	160% 60%	23.	(a) 30 (b) 37.5 (c) 42.5 (d) 45 If the cost price of 10 chairs be equal to selling price
10.	20 articles, the gain per (a) 20% (b) 2	22%		of 18 chairs then the loss percent is. (a) 9.6 (b) 400/9 (c) 20 (d) 37.5
11.	price of 40 oranges, the	ranges is equal to the selling en the profit percent is.	24.	If the selling price of 10 oranges is the cost price of 13 oranges. Then the profit percentage is. (a) 20% (b) 22%
12.	of 10 oranges, then the	25 ranges is equal to selling price percentage of profit is.	25.	(c) 25% (d) 30% The cost price of 20 articles is equal to the selling price of 15 articles. The profit percent is (a) 50/3 (b) 20
13.	(c) 18% (d) 2 If the cost price of artic	20% 25% les is equal to the selling price	26.	(c) 100/3 (d) 200/3 The cost price of 24 apples is the same as the selling price of 18 apples. The percentage of gain is:
	of 9 articles, the gain or (a) 100/9% profit 125/17% profit	loss percent is.	25	(a) 25/2 (b) 44/3 (c) 50/3 (d) 100/3
14.	The ratio of the cost pri	25/13 loss ice and selling price of an the percentage of profit?	2/.	If the cost price of an article is 80% of its selling price the profit percent is: (a) 20% (b) 45/2%
15.	(a) 20% (b) 1 (c) 12.5% (d) 1 In selling in article for H			(c) 24% (d) 25% If the cost price of 15 articles is equal to the selling price of 12 articles, find gain%
	If it is sold for Rs. 75, th (a) 44 (b) 4 (c) 48 (d) 5	ne profit percent will be 46		(a) 20 (b) 25 (c) 18 (d) 21 If the cost price of 10 articles is equal to the selling
				price of 8 articles, then gain percent is

	(a) 10%	(b) 8%		(c) 50/3% (d) 25%	
	(c) 50%	(d) 25%	42.	A person sells two machines at Rs. 396 eac	
30.		00 lemons is equal to the selling		he gains 10% and on the other he loses 10	%. His
		ns, then the profit percent is		profit or loss in the whole transaction is,	0.3.407
	(a) 15%	(b)20		(a) no gain no loss	(b) 1%
	(c) 25%	(d) 40%		loss	
31		f 12 articles is equal to the cost	42	(c) 1% profit (d) 8% profit	s acab in
J 1.		The gain percent is	43.	A house and a shop were sold for Rs. 1 lake this transaction, the house sale resulted in	
	(a) 20/3%	(b) 20%		whereas the shop sale into 20% profit. The	
	(c) 25%	(d) 80%		transaction resulted in:	CHLIC
32.		ling price of an article is a : b . If b is		(a) no loss no gain	(b) gain of
		e percentage of profit on cost price			(b) gain or
	is			Rs. 1/24 lakh	(d) loss of
	(a) 75%	(b) 125%		(c) loss of Rs. 1/12 lakh Rs. 1/18 lakh	(0) 1055 01
	(c) 100%	(d) 200%	44	A shopkeeper sells two T. V. sets at the san	ne nrice
33.		mangoes at the cost price of 320		There is a gain of 20% on one TV and a loss	
	mangoes. His perc			on the other, State which of the following s	
	(a) 10	(b) 15		correct.	
	(c) 20	(d) 25		(a) The shopkeeper makes no net loss or p	rofit
34.		angoes at the cost price of 400		(c) The shopkeeper gains by 4%	(d) The
	mangoes. His gain			shopkeeper loses by 4%	(a) The
	(a) 15	(b) 20	45.	A man sells two article at Rs. 99 each. In or	e he gains
3 F	(c) 25	(d) 10		10% and on the other he loses 10%, What	
35.		18 articles, is equal to the selling s, the gain or loss is		or loss percent on the whole transaction?	17.0
		A CONTRACT C		(a) Loss, 1% (b) Loss, 1.5%	
	(a) 25% gain	(b) 25% loss		(c) Profit, 1% (d) Profit, 1.5%	
20	(c) 25/2% loss	(d) 25/2% gain	46.	A nan sells two pipes at Rs. 12 each, He gai	
36.	each, then the loss	at Rs. 5 each and sold at Rs. 450		one and loses 20% on the other. II, the who	ole
		27420 A000 PM (PM		transaction, there is (a) neither loss nor gain	(b) Profit
	(a) 10%	(b) 115%		of Rs. 1	(b) I Tolic
27	(c) 12%	(d) 13%		(c) Loss of Rs. 1 (d) profit of Rs. 2	
3/.		gerator and a television set are in e refrigerator costs Rs. 5500 more	47.	Bhuvnesh sells two tape recorders at the sa	ame price.
		set, then the price of the		On one, he gains 10% and on the other he l	
	refrigerator is;	sec, then the place of the		The total gain or loss in the transaction is :	
	(a) Rs 27500	(b) Rs. 8250		(a) 1% gain (b) 1% loss	
		(d) Rs. 16500		(c) No loss or gain	(d) 2%
38.		prices from Rs. 150 to Rs. 300 are		loss	
•		ing from Rs. 250 to Rs. 350. What is	48.	A man sells two tables at the same price. O	
		ole profit that might be made in		makes, a profit of 10% and on the other su	
	selling 15 books?			of 10%, His loss percent on the whole tran	saction is :
	(a) Cannot be dete	rmined (b) Rs.		(a) 0 (b) 1	
	750		4.0	(c) 2 (d) 5 A trader sells two articles at Rs. 6000 each	He makes
	(c) Rs. 4,250	(d) Rs. 3,000	47.	a profit of 20% in the sale of the first articl	
39.		oooks is equal to the selling price of		of 20% in the sale of the second article. Wh	
		or loss percentage will be ;		net gain or loss percent?	
	(a) 267/4%	(b) 66%		(a) 5% gain (b) 4% gain	
	(c) 200/3%	(d) 265/4%		(c) 5% loss (d) 4% loss	
40.		price to selling price is 10 : 11, then	50.	A television and a refrigerator were sold for	
	the rate of percent	1.70		12,000 each. If the television was sold at a	
	(a) 1.1%	(b) 10%		of the cost and the refrigerator at a gain. of	20% of the
11	(c) 0.1%	(d) 1% 25 chairs is equal to the selling		cost, the entire transaction resulted in	
11.	Price of 30 chair, t			(a) No loss or gain	(b) Loss
	(a) 5%	(b) 20%		of Rs. 1,000	

(c) Gain of Rs. 1,000	(d) Loss
of Rs. 1,200	

- **51.** Two bicycles were sold for Rs. 3990 each gaining 5% on one and losing 5% on other, The gain or loss percent on the whole transaction is:
 - (a) neither gain nor loss (b) 2.5% gain
 - (c) 2.5% loss (d) 0.25% loss
- 52. A. man sold two watches for Rs. 240 each. On one he gains 20% and incurs a loss of 20% on another. What is his gain or loss percent in this transaction?
 - (a) 1% profit.
 - (b) 2% loss
 - (c) 4% profit
- (d) 4% loss
- 53. A dealer sold two T.V. sets for Rs. 7400 each. On one he gained 10% and on the other he lost 10%. The dealer's loss or gain in the transaction is:
 - (a) No profit no loss gain

(b) 1%

(c) 0.1% loss

- (d) 1% loss
- **54.** A car and a jeep were sold for Rs. 2,40,000 each. The car was sold at a loss of 20% while the jeep at a gain of 20%. The entire transaction resulted in
 - (a) neither loss nor gain

(b) gain of

Rs. 1000

(c) loss of Rs. 20,000 Rs. 500

(d) gain of

- 55. A man sold two chairs at Rs. 1,200 each, On one he gained 20% and on the other he lost 20%. He gain or loss in the whole transaction is
 - (a) 1% loss
- (b) 2% loss
- (c) 4% loss
- (d) 1% gain
- 56. A nan sells two chairs at Rs. 120 each and by doing so gains 25% on one chair and loses 25% con the other. His loss on the whole in Rs. is
 - (a) 20
- (b) 16
- (c)25
- (d) 30
- 57. A dealer sold two types of goods for Rs. 10,000 each. On one of them, he lost 20% and on the other he gained 20%, his gain or loss percent in the entire transaction was
 - (a) 2% loss
- (b) 2% gain

(b) 4%

- (d) 4% loss gain
- 58. A man sold two articles at Rs. 375 each. On one, he gains 25% and on the other, he loses 25%, The gain or loss% on the whole transaction is
 - (a) 6% loss
- (b) 25/6 % profit
- (c) Rs. 50 profit
- (d) 25/4% loss
- **59.** Ram sold two horses at the same price. In one he gets a profit of 10% and in the other he gets a loss of 10%. Then Ram gets
 - (a) 1% loss
- (b) 1% profits
- (c) no loss or profit

(d) 2%

loss

- 60. By selling an article for Rs. 240, a man incurs a loss of 10%. At what price should he sell it, so that he makes a profit of 20%
 - (a) Rs. 264
- (b) Rs 288
- (c) Rs. 300
- (d) Rs. 320
- **61.** A man wanted to sell an article with 20% profit: but he actually sold at 20% loss for Rs. 480, At what price he wanted to sell it to each the profit?
 - (a) Rs. 720
- (b) 840 (d) Rs. 750
- (c) Rs. 600
- **62.** If an article at 5% gains instead of 5% loss the man gains Rs. 5 more. Find the cost price of that article
 - (a) Rs. 100
- (b) Rs. 105
- (c) Rs. 50
- (d) Rs. 110
- **63.** By selling an article for Rs. 72, there is a loss of 10%. In order to gain 5%, its selling price should be:
 - (a) Rs 87
- (b) Rs. 85
- (c) Rs. 80
- (d) Rs. 84
- 64. On selling an article for Rs. 105 a trader loses 9%. To gain 30% he should sell the article at
 - (a) Rs. 126
- (b) Rs. 144
- (c) Rs. 150
- (d) Rs. 139
- 65. An article is sold at a loss of 10%. Had it been sold for Rs. 9 more there would have been a gain of 25/2 % on it. The cost price of the article is:
 - (a) Rs. 40
- (b) Rs. 45
- (c) Rs. 50
- (d) 35
- 66. By selling a table for of Rs. 350 instead of Rs. 400, loss percent increases by 5%. The cost price of table is
 - (a) Rs. 1,040
- (b) Rs. 417,50
- (c) 435
- (d) Rs. 1,000
- **67.** By selling a tape-recorded for Rs. 950 one lose 5%. What percent shall one gain by selling it for Rs. 1040? (a) 5
- (b) 4
- (c) 4.5
- (d) 9
- 68. A shopkeeper sells an article at a loss of 25/2 %. Had he sold it for Rs. 51.80 more, he would have earned a profit of 6%. The cost price of the article is
 - (a) Rs. 280
- (b) Rs. 300
- (c) Rs. 380
- (d) Rs 400
- 69. A person sells a table at a profit of 10%. If he had bought the table at 5% less cost and sold for Rs, 80 more. He would have gained 20%. The cost price of the table is
 - (a) Rs. 3,200
- (b) Rs. 2,500
- (c) Rs. 2,000
- (d) Rs. 200
- 70. A tradesman sold an article at a loss of 20%. If the selling price had been increased by Rs. 100, there would have been a gain of 5%. The cost price of the article was.
 - (a) Rs. 200
- (b) Rs. 25
- (c) Rs. 400
- (d) Rs. 250
- 71. An article is sold at a profit of 20% if, it had been sold at a profit of 25%, it would have fetched Rs. 35. The cost price of the article is:

- (a) Rs. 650 (b) Rs. 700 (c) Rs. 750 (d) Rs. 800
- **72.** A man gains 20% by selling an article for a certain price. If he sells it at double the price, the percentage of profit will be:
 - (a) 40 (b) 14 (c) 100 (d) 120
- **73.** By selling a plot of land for Rs. 45,000 a person loses 10%. At what price should he sell it to gain 15%
 - (a) Rs 50,000 (b) Rs. 55,000 (c) Rs. 57,500 (d) Rs. 60,000
- **74.** A radio is sold for Rs. 990 at a profit of 10%, What would have been the actual profit or loss on it had it been sold for Rs. 890?
 - (a) Rs. 10 loss (c) Rs. 90 loss (d) Rs. 90 profit
- **75.** A man sold an article at a loss of 20%. If he has sold that article for Rs. 12 more he would have gained 10%. Find the cost price of that article;
 - (a) Rs. 60 (b) Rs. 40 (c) Rs. 30 (d) Rs. 22
- 76. If an article is sold for Rs. 178, at a loss of 11%, what should be its selling price in order to earn a profit of 11%
 - (a) Rs. 222.50 (b) Rs. 267 (c) Rs. 222 (d) Rs. 220
- **77.** A man gets Rs. 13 more by selling an article at a profit of 25/2 % than selling it at a loss of 25/2%, The cost price of the article is :
 - (a) Rs. 25.50 (b) Rs. 38 (c) Rs. 52 (d) Rs. 65
- **78.** The percentage of loss when an article is sold at Rs. 50 is the same as that of the profit when it is sold at Rs. 70. The above-mentioned percentage of profit or loss on the article is
 - (a) 10% (b) 50/3% (c) 20% (d) 68/3%
- **79.** If an article is sold at a gain of 5% instead of being sold at a loss of 5%. One gets Rs. 5 more. What is the cost price of the article?
 - (a) Rs. 100 (b) Rs. 105 (c) Rs 50 (d) Rs. 110
- **80.** A man sells an article at 10% loss. If he had sold it at Rs. 10 more, he would have gained 10%. The cost price of the article is
 - (a) Rs. 50 (c) 100 (b) Rs. 55 (d) 110
- **81.** If a man were to sell his chai for Rs. 720, he would lose 25%. To gain 25% he should sell it for
 - (a) Rs. 1,200 (b) Rs. 1,000 (c) Rs. 960 (d) Rs. 900
- **82.** A book seller sells a book at a profit of 10%. If he had bought it at 4% less and sold it for Rs. 6 more. He would have gained 75/4 %. The cost price of the book is

- (a) Rs. 130 (b) Rs. 140 (c) Rs. 150 (d) Rs. 160
- **83.** A man sells his typewriter at 5% loss. If he sells it for Rs. 80 more, he will gain 5%. The cost price of the typewriter is
 - (a) Rs. 1,600 (b) Rs. 1,200 (c) Rs. 1,000 (d) Rs. 800.
- 84. An increase of Rs. 3 in the selling price of an article turns a loss of 15/2% into a gain of 15/2%. The cost price (in Rs.) of the article is:
 - (a) 25 (b) 20 (c) 15 (d) 10
- **85.** By selling an article for Rs. 665, there is a loss of 5%. In order to male a profit of 12%, the selling price of the article must be
 - (a) Rs 812 (b) Rs. 800 (c) Rs. 790 (d) Rs. 784
- **86.** A businessman sells a commodity at 10% profit. If he had bought it at 10% less and sold it for Rs. 2 less, then he would have gained 50/3%. The cost price of the commodity is
 - (a) Rs. 32 (b) Rs. 36 (c) Rs. 40 (d) Rs. 48
- **87.** A man sold an article at a loss of 20%. If he had sold it for Rs. 50 more, he would have gained 5%, The cost price of the article was
 - (a) Rs. 250 (b) Rs. 300 (c) Rs. 180 (d) Rs. 200
- **88.** A sells an article to B at a profit of 10% B sells the article back to A at a loss of 10%. In this transaction,
 - (a) A neither loss nor gains makes a profit of 11%
 - (c) A makes a profit of 20% (d) B loss 20%
- **89.** If the selling price of an article is doubled, then its loss percent is converted into equal profit percent. The loss percent on the article is
 - (a) 80/3% (b) 33% (c) 100/3 % (d) 34%
- **90.** A man sold some articles at a gain of 10%. He spent his total sale proceeds to purchase such articles again, This time, while selling them, he incurred a loss of 10%. His loss or gain in the transaction
 - (a) 1% loss (b) 1% gain
 (c) no profit no loss (d) 2% loss
- **91.** By selling a basket for Rs. 19.50, a shopkeeper gains 30%. For how much should he sell it to gain 40%?
 - (a) Rs. 21 (b) Rs. 21.50 (c) Rs. 24 (d) Rs. 23
- **92.** A cooker is sold at a gain of 16%. If it had been sold for Rs. 20 more, 20% would have been gained, The cost price of the cooker is
 - (a) Rs. 350 (b) Rs. 400 (c) Rs. 500 (d) Rs. 600

93. An article is sold at a loss of 20%. It yields Rs. 60 more when it is sold at a gain of 20%. The cost price of the article is

(a) Rs. 200

(b) Rs. 150

(c) Rs. 140

- (d) Rs. 120
- 94. By selling an article for Rs 700 a man lost 30%. At what price should he have sold it to gain 30%?

(a) Rs. 910

- (b) Rs. 1200
- (c) Rs. 1232
- (d) Rs. 1300
- 95. A man purchased a bedsheet for Rs. 450 and sold it at a gain of 105 calculated on the selling price. The selling price of the bed sheets was

(a) Rs. 460

- (b) Rs. 475
- (c) Rs. 480
- (d) Rs. 500
- 96. If an article is sold at 200% profit then ratio of its cost price to its selling price will be

(a) 1:2

- (b) 2:1
- (c) 1:3
- (d) 3:1
- 97. An article is sold at 5% profit. The ratio of selling price and cost price will be

(a) 1:5

- (b) 20:21
- (c) 21:20
- (d) 5:1
- 98. Aniruddha sold a bicycle at a gain of 8%. Had it been sold for Rs. 75 more, the gain would have been 14%. The cost price of the bicycle was

(a) Rs. 1200

- (b) Rs. 1250
- (c) Rs. 1350
- (d) Rs. 1500
- 99. By selling a bicycle for Rs. 2850 a shopkeeper gains 14%. If the profit is reduced to 8%, then the selling price will be
 - (a) Rs. 2,600
- (b) Rs. 2,700
- (c) Rs. 2,800
- (d) Rs. 3,000
- 100. By selling an article for Rs. 960 a man incurs a loss of 4%; what was the cost price?
 - (a) Rs. 1,000
- (b) Rs. 784
- (c) Rs. 4, 984
- (d) Rs. 300
- 101. A fruit seller makes a profit of 20% by selling mangoes at a certain price. If he charges Rs. 1 more a profit of 40%. Find the selling price of a mango in the first case.
 - (a) Rs. 6
- (b) Rs. 5
- (c) Rs. 5.50
- d) Rs. 7
- 102. If a man were to sell his handcart for Rs. 720, he would loss 255. To gain 25%, the selling price is
 - (a) Rs. 960
- (b) Rs. 1,200
- (c) Rs. 1,000
- (d) Rs. 2,100
- 103. A grocery dealer cheats to the extent of 10% while buying as well as selling by using false weight. What is his increase in the profit percentage?
 - (a) 20%
- (b) 21%
- (c) 22%
- (d) None of these

- 104. A book vendor sold a book at a loss of 20%. Had he sold it for Rs. 108 more, he would have earned a profit of 30%. Find the cost price of the book?
 - (a) Rs. 216
- (b) Rs. 648
- (c) Rs. 240
- (d) Rs. 432
- 105. A book vendor sold a book at loss of 10%. Had he sold it for Rs. 108 more, he would have earned a profit of 10%. Find the cost f the book.
 - (a) Rs. 442
- (b) Rs. 540
- (c) Rs. 648
- (d) Rs. 740
- 106. Dinesh bought two radios for Rs. 1,920. He sold one at a profit of 20% and the other at a loss 20/3%. If the selling price of both radios are same, then find the cost price of both radios.

(a) Rs. 800 and Rs. 1,120

(b) Rs.

840 and Rs. 1,080

(c) Rs. 860 and Rs. 1,060

(d) Rs.

900 and Rs. 1,020

- 107. A loss of 19% get converted into a profit of 17% when the selling price is increased by Rs. 162. The cost price of the article is
 - (a) Rs. 450
- (b) Rs. 600
- (c) Rs. 360
- (d) Rs. 540
- 108. The reduction of Rs. 12 in the selling price of an article will changes 5% gain into 5/2% loss. The cost price of the article is
 - (a) Rs. 140
- (b) Rs. 160
- (c) Rs. 80
- (d) Rs. 100
- 109. An article was sold at a profit of 12%. If the cost price would be 10% less and selling price would be Rs. 5.75 more, there would be profit of 30%. Then at what price it should be sold to make a profit of 20%?
 - (a) Rs. 115
- (b) Rs. 120
- (c) Rs. 138
- (d) Rs. 215
- 110. By selling a table for Rs. 1140, a man loses 5%. In order to gain 5% the table must be sold for
 - (a) Rs. 1260
- (b) Rs. 1320
- (c) Rs. 1180
- (d) Rs. 1250
- 111. A radio dealer sold a radio at a loss of 2.5%. Had he sold it for Rs, 100 more, he would have gained 15/2% in order to gain 25/2 % he should sell it for
 - (a) Rs. 1080
- (b) Rs 1125
- (c) Rs. 850
- (d) Rs. 925
- 112. By selling a fan for Rs. 600, a man losses 10%. To make a gain of 20%, the selling price of the fan should
 - (a) Rs. 900
- (b) Rs. 1000
- (c) Rs. 700
- (d)Rs. 800
- 113. On selling an article for Rs. 170, a shopkeeper losses 15%, In order to gain 20%, he must sell that article at rupees:
 - (a) 215.50
- (b) 212.50
- (c) 240
- (d) 210
- 114. An article is sold at a gain of 15%. Had it been sold for Rs. 27 more then the profit would have been 20%. The cost price of the article is
 - (a) Rs. 500
- (b) Rs. 700

- (c) Rs. 540 (d)Rs. 545
- 115. A man sells an article, gain of 15%. If he had bought it at 10% less and sold it for Rs. 4 less, he would have gained 25 %, The cost price of the article is
 - (a) Rs. 140
- (b) Rs. 150
- (c) Rs. 160
- (d) Rs. 185
- 116. An article is sold at a loss of 10%. Had it been sold for Rs. 90 more, there would have been a gain of 5%. The original sale price of the article (in Rs.) is:
 - (a) 540
- (b) 600
- (c) 628
- (d) 650
- 117. A man sold an article at a loss of 20%. If he could sell it for Rs. 200 more, he would make a profit of 5%. The cost price of the article is
 - (a) Rs. 700
- (b) Rs. 800
- (c) Rs. 850
- (d) Rs. 900
- 118. A businessman bought an article and sold it at a loss of 5%. If he had bought it for 10% less and sold it for Rs. 33 more, he would have had a profit of 30%. The cost of the article is
 - (a) 330
- (b) 155
- (c) 150
- (d) 390
- 119. An article was sold a 16% gain. Had it been sold or Rs. 200 more, the gain would have been 20%. The cost price of the article is:
 - (a) Rs. 5000
- (b) Rs. 4800
- (c) Rs. 4500
- (d) Rs. 5200
- 120. A shopkeeper sells an article at 15% gain, Had he sold it for Rs. 18 more, he would have gained 18%. the cost price (in Rs.) of the article is
 - (a) 540
- (b) 318
- (c) 600
- (d) 350
- 121. Mohan sold his watch at 10% loss, If he had sold it for Rs. 45 more, he would have made 5% profit. The cost price (in Rs.) of the watch was
 - (a) 300
- (b) 900
- (c) 110
- (d) 270
- 122. If the selling price of a product is increased by Rs. 162, then the businessman will make a profit of 17% instead of loss of 19%. The cost price of the product is
 - (a) Rs. 360
- (b) Rs. 450
- (c) Rs. 540
- (d) Rs. 600
- 123. A tradesman sold an article at a loss of 20%. If the selling price there would have been a gain of 5%. The cost price of the article (in Rs.) was
 - (a) Rs. 100
- (b) Rs. 200
- (c) Rs. 400
- (d) Rs. 500
- 124. A dealer sold a bicycle at a profit of 10%. Had he bought the bicycle at 10% less price and sold it at a price Rs. 60 more, he would have gained 25%. The cost price of the bicycle was:
 - (a) Rs. 2400
- (b) Rs. 2200
- (c) Rs. 2000
- (d) Rs. 2600

- 125. A radio is sold at a profit of 20%. Had it been sold for R. 60 more than profit would have been 30%, The cost price of the ratio is
 - (a)Rs. 600
- (b) Rs. 620
- (c) Rs. 550
- (d) Rs. 500
- 126. A man sells an article at 5% above its cost price. If he had bought it at 5% less then what he had paid for it and sold it at Rs. 2 less, he would have gained 10%. The cost price of the article is:
 - (a) Rs. 300
- (b) Rs. 400
- (c) Rs. 200
- (d) Rs. 100
- 127. There would be a 10% loss, if rice is sold at Rs. 54 per kg. To earn a profit of 20%, the price of rice per kg will be:
 - (a) Rs. 72
- (b) Rs. 70

- (c) Rs. 63 (d) Rs. 65 128. Pooja wants to sell a watch at a profit of 20%, , She bought it at 10% less and sold it, at Rs. 30 less, but still she gained 20%. The cost price of watch
 - (a) Rs. 240
- (b) Rs. 250
- (c) Rs. 220
- (d) Rs. 225
- 129, A profit of 12% is made when a mobile phone is sold at Rs. P and there is 4% loss when the phone is sold at Rs. Q. Then Q: P is
 - (a) 1:1
- (b) 6: 7
- (c) 4:5
- (d) 3:1
- 130. An article is sold at a profit of 25%, If the selling price is doubled, the profit % will be:
 - (a) 200%
- (b) 150%
- (c) 100%
- (d) 50%
- 131, A man purchased an article for Rs, 1500 and sold it at 25% above the cost price. If he has to pay Rs. 75 as taxon it his net profit percentage will be:
 - (a) 25%
- (b) 30%
- (c) 15%
- (d) 20% 132. If a man were to sell his hand-kart: Rs 720, he would lose 25%. At what price must he sell it to gain 25%?
 - (a) Rs. 960
- (b) Rs. 1152
- (c) 768
- (d) 1200
- 133. By selling an article for Rs. 450. I lose 20%. For what amount, should I sell it to gain 20%?
 - (a)Rs. 675
- (b) Rs. 470
- (c) Rs. 490
- (d) Rs 562.50
- 134. A shopkeeper sold an article at a loss of 20%. But if he could sell it at Rs. 200 more, he could earn a profit of 5%. The cost price of the article is
 - (a) Rs. 600
- (b) Rs. 800
- (c) Rs. 1,000
- (d) Rs. 1,200
- 135. By selling some goods at Rs. 31, a salesman loses 7% on his output. Find the percentage profit or loss, When he sells the same at Rs. 35.
 - (a) Loss 7%
- (b) Profit 5%
- (c) Loss 5%
- (d) Profit 7%
- 136. The marked price of an article is 10% higher than cost price. A discount of 10% is given on marked price. In this kind of sale, the bears:

(a) no loss no gain (b) a loss of 5%

(c) a gain of 1% (d) a loss of 1%

- 137. A dealer makes a profit of 20% even after giving a 10% discount on the advertised price of a scooter. If he makes a profit of Rs. 7500 on the sale of the scooter the advertised price was
 - (a) Rs. 45000 (b) Rs. 47500 (c) Rs. 50000 (d) Rs. 52500
- 138. Shopkeeper earns a profit of 12% on selling a book at 10% discount on the printed price. The ratio of the cost price and the printed price of the book is

(a) 99: 125 (b) 25: 37 (c) 50: 61 (d) 45: 56

139. A tradesman allows a discount of 15% on the marked price. How much above the cost price must he mark his goods as to gain 19%?

(a) 34% (b) 40% (c) 25% (d) 30%

140. Rita bought a television set with 20% discount on the labelled price. She made a profit of Rs. 800 by selling it for Rs. 16,800. The labelled price of the set was

(a) Rs. 18,000 (b) Rs. 20,000 (c) Rs. 20,800 (d) Rs. 24,000

141. If the profit percent got on selling an article is numerically equal to its cost price in rupees and the selling price is Rs. 39, then cost price (in Rs.) will be

(a)20 (b) 22 (c) 28 (d) 30

142. The cost price of an article is Rs. 800. After allowing a discount of 10%, a gain of 12.5% was made. Then the marked price of the article is

(a) Rs. 1,000 (b) Rs. 1,100 (c) Rs. 1,200 (d) Rs. 1,300

143. A shopkeeper allows 23% commission on his advertised price and still makes a profit of 10%. If he gains Rs. 56 on one item, his advertised price of the item, in Rs. is

(a) 820 (b) 780 (c) 790 (d) 800

144. The marked price of an article is 50% above cost price, When marked price is increased by 20% and selling price is increased by 20%. The profit doubles. If original marked price is Rs. 300, then original selling price is

(a) Rs. 200 (b) Rs. 250 (c) Rs. 240 (d) Rs. 275

145. A fan is listed at Rs. 150 and a discount of 20% is given. Then the selling price is

(a) Rs. 180 (b) Rs. 150 (c) Rs. 120 (d) Rs. 110

146. To gain 8% after allowing a discount of 10%, by what percent cost price should be hiked in the list price?

(a) 9% (b) 11% (c) 18% (d) 20% 147. The cost of manufacture of a tape recorder is Rs. 1,500. The manufacturer fixes the marked price 20% above the cost of manufacture and allow a discount in such a way as to get a profit of 8%. The rate of discount is

(a) 12 (b) 8 (c) 12 (d) 10

148. How much percent above the cost price should a shopkeeper marks his goods so as to earn a profit of 32% after allowing a discount of 12% on the marked price?

(a) 50% (b) 40% (c) 60% (d) 45%

149. A dealer purchased a washing machine for Rs. 7,660. After allowing a discount of 12% on its marked price, he still gains 10%. Find the marked price of the washing machine.

(a) Rs. 9,575 (b) Rs. 8,426 (c) Rs. 8,246 (d) Rs. 9,755

150. A publisher printed 2000 copies of a book at a cost of Rs. 70,000. He distributes 400 copies free as specimen copies. He gave 30% discount on marked price of each book which is Rs. 75. What is his gain or loss percentage?

(a) 20% gain (b) 20% loss (c) 10% (d) 10% gain

151. While selling to the retailer, a company allows 30% discount on the marked price of their products. If the retailer sells those products at marked price, his profit will be:

(a) 30% (b) 17/2% (c) 40% (d) 300/7%

152. A trader marked the price of a commodity so as to include a profit of 25%, but allow a discount of 16% on the marked price. His actual profit will be

(a) 16% (b) 25% (c) 5% (d) 9%

153. A merchant purchases a wrist watch for Rs. 450 and fixes its list price in such a way that after allowing a discount of 10%, he earns a profit of 20%. Then the list price of the watch is

(a) Rs. 650 (b) Rs. 700 (c) Rs. 550 (d) Rs. 600

154. If a shirt cost Rs. 64, after 20% discount is allowed, what was its original price in Rs. ?

(a) 76.80 (b) 80 (c) 88 (d) 86.80

155. A got 30% concession on the label price of an article and sold for Rs. 8,750 with 25% profit on the price he bought. The label price was

(a) Rs. 13,000 (b) Rs. 16,000 (c) Rs. 12,000 (d) Rs. 10,000

156. A shopkeeper earns a profit of 12% on selling a book at 10% discount on printed price. The ratio of the cost price to printed price of the book is

(a) 45:56 (b) 50:61 (c) 90:974 (d) 99:125

157.	A shopkeeper mar	ks his goods 15% above o	cost price,
		scount for cash. His net lo	
	(a) 3%	(b) 5%	
	(c) 8%	(d) 10%	
158.		acture of a tape recorder	is Rs.
		cturer fixes the marked p	
		nanufacture. If the manuf	
		what is the rate of discou	
	can't be allowed?	what is the rate of discou	ne chae
	(a) 20%	(b) 15%	
	(c) 11%	(d) 10%	
150		sarees at Rs. 266 each af	tor giving
137.		pelled price. Had he not g	
		l have earned a profit of 1	
		at was the cost price of ea	
	(c) Rs. 240		cii saree :
160	5 50 00 0000 mm 10 10 10 10 10 10 10 10 10 10 10 10 10	(d) Rs. 250	lianavuut
100		a wrist watch with 30% c ce. He sold it with 40% pi	
		t, what was his percent lo	
	labelled price?	(a 2	(b) 6
	(c) 4	(d) 8	11
161.		liscount of 10% on the ma	
		profit of 17% on the cos	
		centage if he sells at the r	
	price.	(a 27%	(b) 33%
	(c) 30%	(d) 19%	
162.		rs a discount of 10% on h	
		of the article is Rs. 450. T	
	price should be	(a Rs. 395	(b) Rs.
	410		
	(c) Rs. 405	(d) Rs. 400	
163.		s his goods 30% more th	
		a discount of 25/4% then	his gain
	percent is		
	(a) 95/4%	(b) 225	
201 1	(c) 175/8%	(d) 30%	-
164.		computer he is selling by	
		m at a discount of 15% A	run's net
	gain percent is		
	(a) 4	(b) 2	
	(c) 3.5	(d) 2,5	
165.		ed radio sets at the rate o	
		saler. He raised the price	
		discount of 8% on each	set. His
	profit will be		
	(a) 19%	(b) 78.4%	
	(c) 22%	(d) 19.6%	oman mm
166.		marked at Rs. 975 is sold	l for Rs.
	897. The % discou	nt is ?	
	(a) 12%	(b) 10%	
	(c) 6%	(d) 3%	
167	2.7	een successive discounts	of
		nd 45% followed by 20%	
		article is Rs. 12, The man	
	of the article is:	io rioi 12, The mai	ca price
		(b) Da 000	
	(a) Rs. 400	(b) Rs. 800	

(d) Rs. 200

168. Find a single discount equivalent to a discount series of 10%, 20% and 25%: (b) 52%

(a) 45% (c) 46%

(d) 55%

169. A dealer buys an article listed at & 100 and gets successive discounts of 10% and 20%. He spends 10% of the Cost Price on transportations; At what price should he sell the article to earn a profit of 15%?

(a) Rs. 90.80

(b) Rs. 92.00

(c) Rs 91.20 (d) Rs. 91.08

170. A shopkeeper allows a discount of 10% on the marked price of a camera. Marked price of the camera, which cost him Rs. 600, to make a profit of 20% should Rb e2:80 (b) Rs. 260

(a) Rs. 800

(b) Rs. 650

(c) Rs 750

(d) Rs. 700

171, 10% discount and then 20% discount in succession equivalents to total discount of

(a) 15%

(b) 30%

(c) 24% (d) 28%

172. The marked price of a watch was Rs. 7 20. A man bought the same for Rs. 550.80 after getting two successive discounts, the first being 10%, the second discount rate is

(a) 12%

(b) 14% (d) 18%

(c) 15%

173. Allowing 20% and 15% successive discounts, the selling price of an article becomes Rs. 3,060; then the marked price will be:

(a) Rs. 4,400

(b) Rs. 5,000

(c) Rs. 4,500

(d) Rs. 4,000

174. List price of a book is Rs. 100. A dealer sells three such books for Rs. 274.50 after allowing discount at a certain rate, find the rate of discount.

(a) 8.33%

(b) 8, 16%

(c) 8.5%

(d) 8.34%

175. The printed price of an article is 40% higher than its cost price, Then the rate of discount so that he gains 12% profit is:

(a) 20%

(b) 15%

(c) 21%

(d) 18%

176. A shopkeeper gains 17% after allowing a discount of 10% on the marked price of an article, Find his profit percent if the article is skid at marked price allowing no discount.

(a) 23%

(b) 27%

(c) 30%

(d) 37%

177. A reader marks his goods 20% above cost price but allows his customers a discount of 10%, the cost price of a blackboard, which is sold for Rs. 216, is:

(a) Rs. 108

(b) Rs. 180

(c) Rs. 196

(d) Rs. 200

178. If the cost price of an item is 5/9 of its marked price and the profit is 20%, then the percentage of discount

(a) 20%

(b) 190/3%

(c) Rs. 600

	(c) 211/3%	(d) 100/3%
179.	If a shopkeeper wa	ints to give 20% discount on a toy,
		Rs. 300. If he sells it at Rs. 405,
	then his gain perce	ent is
	(a) 5%	(b) 8%
	(c) 6%	(d) 4%
180.		orice of an article 40% above the
		While selling it he allows a
		nd makes a profit of Rs. 48. The cost
	of production (in R	
	(c) 420	(d) 360
181.		es his selling price at 100/3 % over
101.		tion, If cost of production goes up
		facture raises his selling price by
	10%, his percentag	
	(a) 329/9 %	(b) 683/21%
	(c) 35%	(d) 227/8%
192		a product 25% above the cost
102.		0% discount, then the percentage
	profit is	7% discount, then the percentage
	(a) 35%	(b) 17 F0/
	2.5	(b) 17.5%
102	(c) 155	(d) 12.5%
183.		ats of 20% and 10% are equivalent
	to a single discoun	
	(a) 28%	(b) 25%
	(c) 30%	(d) 15%
184.		scount of 20%, a radio is available
	for Rs. 1200. Its ma	보면서 발표되면 있는 이 프라이지 않는데 1000년에 있는데 1000년 100년 100년 100년 100년 100년 100년 10
	(a) Rs. 1500	(b) Rs. 1800
	(c) Rs. 1400	(d) Rs. 1550
185.		the price of an article at 30%
		ual cost. If he sells it at 10%
		d price then, the profit is:
	(a) 18%	
	(c) 20%	(b) 17% (d) 19%
186.		of a CD is Rs. 250 . It is sold for Rs.
	225. The rate of di	
	(a) 100/9 %	(b) 25%
	(c) 2.5%	(d) 10%
187.	Mohan purchased	a bag with 20 percent discount on
		He sold it with 40 profit on the
	price he bought pe	rcentage of profit on the labelled
	price is:	
	(a) 20%	(b) 24%
	(c) 12%	(d) 18%
188.	A hours was sold for	or Rs. y by giving a discount x %,
	then the list price v	was:
	(a) $\frac{100y}{}$	(b) $\frac{100x}{100-y}$
	$1 - \frac{1}{100}$	
	(a) $\frac{100y}{1-\frac{x}{100}}$ (c) $\frac{100y}{100-x}$	$(d)\frac{100x}{100-x}$
189	A Shonkeener mar	ks his goods 20% higher than the
107		ws a discount of 5%. The
	percentage of his p	
	percentage UI III5 L	1 0111 131

(b) 15%

(d) 10%

190. After allowing 15% discount, the selling price of a

radio becomes R. 255. The marked price is

(a) 20%

(c) 14%

(a)Rs. 300 (b) Rs. 500 (c) Rs. 600 (d) Rs. 400

191. The list price of an electric fan is 300. If two successive discount of 15% and 10% are allowed. Its selling price would be

(a) Rs. 229.50 (b) Rs. 227.50 (c) Rs. 225 (d) Rs. 230

192. Successive discount of 10%, 20% and 25% on the price of an article will reduce the price by:

(a) 46% (b) 400 (b) 54% (c) 45% (d) 55%

193. How much percentage above the cost price should a shopkeeper mark his good so that after allowing a discount of 10% he should gain 26%?

(a) 140% (b) 25% (c) 16% (d) 40%

194. A sells a bicycle to B at a profit of 20%. B sells it to C at a profit of 25%, If C pays Rs. 225/- for it, the cost price of the bicycle for A is:

(a) Rs. 110/-(b) Rs. 125/-(c) Rs. 120/-(d) Rs. 150/-

195. A house worth Rs. 1,50,000 is sold by X at a 5% profit to Y, Y sells the house back to X at a 2% loss, Then find profit and loss in the entire transaction.

(a) X gains Rs. 4,350 (b) X loses Rs. 4,350 (c) X gains Rs. 3,150 (d) X loses Rs. 3,150

196. If a manufacturer gains 10 percent, wholesaler 15 percent and retailer 25 percent, then the production cost of an article, whose retail price is Rs. 1,265, is

(a) Rs. 700 (b) Rs. 750 (c) Rs. 800 (d) Rs. 900

197. Krishna bought a camera and paid 20% less than its original price. He sold it at 40% profit on the price he had paid. The percentage of profit earned by Krishna on the original price was .

(a) 22 (b) 32 (c) 12 (d) 15

198. A car worth Rs. 1,50,000 was sold by X to Y at 5% profit. Y sold the car back to X at 2% loss. In the entire transaction

(a) X gained Rs. 4,350 (b) Y. lost Rs. 4,350 (c) X gained Rs. 3,150 (d) X lost Rs. 3,150

199. A manufacturer sells an article to a wholesale dealer at a profit of 10%. The wholesale dealer sells it to a shopkeeper at 20% profit. The shopkeeper sells it to a customer for Rs. 56,100 at a loss of 15%. -Then the cost price of the article to the manufacturer is

(a) Rs 25,000 (b) Rs. 10,000 (c) Rs. 50,000 (d) Rs. 55,000

200. A sells a cycle to B at a profit of 5% and B sells it to C at a profit of 10%. If C pays Rs. 2310 for it. The cost price of A is

- (a) Rs. 2000 (b) RS. 2100 (c) Rs. 1900 (d) Rs. 2010
- 201. A sells a to B at a profit of 10%, B sells to C at a profit of 20%, If C pays Rs. 264 for it, how much did. A pay for it?
 - (a) Rs. 200 (b) Rs 220 (c) Rs. 225 (d) Rs. 234
- 202. A man purchased an article and sold it to B at a profit of 25% and B sold it to C at a loss of 10% and C paid Rs. 675 for it. For how much did A. purchase it (in Rs.)?
 - (a) 625 (b) 575 (d) 550 (c)600
- 203. A sold a tape-recorder to B for Rs. 4,860 at a loss of 19%, Again B sold it to C at price that would give A get a profit of 17%. The gain of B is
 - (a) 200/9% (b) 100/3% (c) 400/9% (d) 200/3%
- 204. A sells an article to, B at a gain of 10% B sells it to C at a gain of 5%, If C pays Rs. 462 for it. What did it cost A?
 - (a) Rs. 500 (b) Rs. 450 (c)600(d) Rs 400
- 205. A dishonest fruit vendor sells his goods at cost price but they uses a weight of 900 gm for the kg. weight. His gain percent is:
 - (b) 100/9% (a) 12% (c) 91/9% (d) 10%
- 206. A dishonest shopkeeper, using a faulty balance makes a profit of 5% while buying as well as while selling his goods. His actual gain percent in the whole process amount to
 - (a) 11 (b) 10 (c) 10.25 (d) 10,5
- 207. A man sells a car to his friend at 10% loss. If the friend sells it for Rs. 54,000 and gains 20%, the original cost price of the car was
 - (a) Rs. 25,000 (b) Rs. 35,000 (d) Rs. 50,000 (c) Rs. 45,000
- 208. A sells an article to B at a gain of 10% B sells it to C at a gain of 15/2%, C sells of it at a loss of C ls of i at a loss of 25%; If the prime cost to the manufacturer A was Rs. 3200 then the selling price by C. is
 - (a) Rs. 2800 (b) Rs. 2580
 - (c) Rs. 2670 (d) Rs. 2838
- 209. A sells an article to B at a gain of 20% and B sells it to C at a gain of 10% and C sells it to D at a gain of 25/2%. If D pays Rs. 29.70, A purchased the article for
 - (b) Rs. 10 (a) Rs. 40 (c) Rs. 20 (d) Rs. 30
- 210. A sells a suitcase to B at 10% profit. If B pays Rs. 2,860 for it, then the price at which A bought is
 - (b) Rs. 1,600 (a) Rs. 1,000 (c) Rs 26,00 (d) Rs. 2,500

- 211. A sells a cycle to B at a profit of 20% and B sells it to C at a loss of 25%. If C bought the cycle for Rs. P, then the cost price of it for A was
 - (a) Rs. 1/20 P (b) Rs. 9/20 P (c) Rs. 9/10 P (d) Rs. 10/9 P
- 212. A man buys a cycle for Rs. 1400 and sells it at a loss of 15%. What is the selling price of the cycle?
 - (b) Rs. 1190 (a) Rs. 1202
 - (c) Rs. 1160 (d) Rs. 1000
- 213. On selling an article for Rs. 651, there is a loss of 7%. The cost price of that article is
 - (a) Rs. 744 (b) Rs. 751 (c) Rs. 793 (d) Rs.700
- **214.** Find the selling price of an article if a shopkeeper allows two successive discounts of 5% each on the marked price of Rs. 80
 - (a) Rs. 70.20 (b) Rs. 70.10 (c) Rs. 72.00 (d) Rs. 72.20
- 215. A saleable article passes successively in the hands of three traders. Each trader sold it further at a gain of 25% of the cost price. If the last trader sold it for Rs. 250 then what was the cost price for the first trader?
 - (a) Rs. 128 (b) Rs. 150 (c) Rs. 192 (d) Rs. 200
- 216. A reduction of 20% in the price of salt enabled a purchaser to obtain 4 kg. more for Rs. 100. The reduced. price of salt per kg is:
 - (a) Rs. 4 (b) Rs. 5 (d) Rs. 6.50 (c) Rs. 6.25
- 217. Joseph's salary is reduced by 10%. In order to have his salary back to his original amount it must be raised by
 - (a) 12.5% (b) 100/9% (c) 10% (d) 11%
- **218.** The price of an article is cut by 10%. To restore it to former value the new price must be increased by
 - (b) 9%. (a) 10% (c) 100/9% (d) 11%
- 219. An increase of 20% in the price of mangoes enables a person to purchase 4 mangoes less for Rs. 40. The price of 15 mangoes before increase was
 - (a) Rs. 10 (b) Rs. 15 (d) Rs. 25 (c) Rs 20
- 220. A reduction of 20% in the price of sugar, enables me to purchase 5 kg more for Rs. 600. Find the price of sugar per kg before reduction of price.
 - (a) Rs. 24 (b) Rs. 30 (d) Rs. 36 (c) Rs. 32
- 221. A shopkeeper gains 20% while buying the goods and 30% while selling them. Find his total gain percent.
 - (a) 50% (b) 36% (c) 56% (d) 40%
- 222. A tradesman, means of a false balance defrauds. 10 percent in buying goods and also defrauds 10 percent in selling. His gain percent is

- (a) 10 (b) 11 (c) 21 (d) 100
- **223.** A dishonest grocer sells rice at profit of 10% and also uses weights which are 20% less than the marked weight. The total gain earned by him will be
 - (a) 37.5% (b) 32% (c) 30.5% (d) 35%
- **224.** A dishonest dealer professes to sell his goods at the cost price but uses a false weight of 850 g instead of 1. kg, his gain percent is
 - (a) 101/17% (b) 100/17% (c) 1212/17% (d) 198/17%
- **225.** A nan bought two goats for Rs. 1008, He sold one at a loss of 20% and other at a profit of 44% if each goat was sold for the same price the cost price of the goat which was sold at loss, was:
 - (a) Rs. 648 (b) Rs. 360 (c) Rs. 568, (d) RS. 440
- 226. The total cost price of two watches is Rs. 840 one is sold at a profit of 16 percent aid the other at a loss of 12 percent. There is no loss or no gain, in the whole transaction. The cost price of the watch on which the shopkeeper gains, is
 - (a) Rs. 360 (b) Rs. 370 (c) Rs. 380 (d) Rs. 390
- 227. One trader calculates the percentage of profit on the buying price and another calculates on the selling price. When their selling prices are the same, then the difference of their actual profits is Rs. 85 and both claim to have made 20% profit, what is the selling price of each?
 - (a) Rs. 1700 (b) Rs. 2100 (c) Rs. 2550 (d) Rs. 2750
- 228. A trader bought two horses for Rs. 19,500. He sold one at a loss of 20% and the other at a profit of 15%. If the selling price of each horse is the same, then their cost prices are respectively.
 - (a) Rs. 10,000 and Rs. 9,500 11,500 and Rs. 8,000
 - (c) Rs. 12,000 and Rs. 7,500 (d) Rs. 10,500 and Rs. 9,000
- **229.** X sells two articles for Rs. 4,000 each with no loss and no gain in the transaction. If one was sold at a gain of 25% the other is sold at a loss of
 - (a) 25% (b)164/9% (c) 50/3 % (d) 20%
- **230.** A man purchases two fans for Rs. 2,160. By selling one fan at a profit of 15% and the other at a loss of 9% he neither gains nor loss in the whole transaction. Find the cost price of each fan in Rs.
 - (a) 710, 1450 (b) 1530,630 (c) 810,350 (d) 1340,820
- **231.** If I would have purchased 11 article for Rs. 10 and sold all the articles at the rate of 10 for Rs. 11, the profit percent would have been:
 - (a) 10%. (b) 11%

- (c) 21% (d) 100%
- **232.** A person buys some pencils at 5 for a rupee and sells them at 3 for a rupee. His gain percent will be:
 - (a) 200/3 % (b) 230/3% (c) 170/3% (d) 140/3%
- **233.** 100 oranges are bought from Rs. 350 and sold at the rate of. Rs. 48 per dozen. The percentage of profit or loss is:
 - (a) 15% loss (b), 15% gain (c) 100/7% loss (d) 100/7 % profit
- 234. Oranges are bought the rate of 10 for Rs. 25 and sold at the rate of 9 for Rs. 25. The profit is
 - (a) 100/11% (b) 10% (c) 100/9% (d) 25/2%
- **235.** Some articles were bought at 6 for Rs. 5, and sold at 5 for Rs. 6, Gain percent is:
 - (a) 5% (b) 6% (c) 30% (d) 44%
- 236. A person bought some articles at the rate of 5 per rupee and the same number at the rate of 4 per rupee. He mixed both the types and sold at the rate of 9 for 2 rupees. In this business he suffered a loss of Rs. 3. The total number of articles bought by him was
 - (a) 1090 (b) 1080 (c) 540 (d) 545
- **237.** A man bought pencils at the rate of 6 for Rs. 4 and sold them at the rate of 4 for Rs. 6 his gain in the transaction is:
 - (a) 75% (b) 80% (c) 125% (d) 100%
- **238.** Ravi buys some toffees at 2 for a rupee and sells them, at 5 for rupee. His loss percent is
 - (a) 120 (b) 90 (c) 30 (d) 60
- 239. Some toffees were bought at the rate of 11 for Rs. 10 and the same number at the rate of 9 for Rs. 10. If the whole lot was sold at one rupee per toffee, then the whole transaction was
 - (a) loss of 1% (b) gain of 1%
 - (c) neither gain nor loss (d) gain of 1.5%
- **240.** A man buys a certain number of oranges at 20 for Rs, 60 and an equal number at 30 for Rs, 60. He mixes them and sells them at 25 for Rs, 60. What is gain or loss percent
 - loss percent
 (a Gain of 4% (b) Loss of 4% (c) Neither gain nor loss (d) Loss of 5%
- **241.** If the total cost of 73 articles having equal cost is Rs. 5,110 and the total selling price of 89 such articles is Rs. 5,607, then in the transaction, there will be (c) a loss of 10% (d) a gain of 15%
- **242.** A fruit vendor bought bananas at the rate of 5 for a rupee and sold them 4 for a rupee. The percent gain or loss is -
 - (a) 25/2 %gain (b) 25% loss (c) 25% gain (d) 25/2% loss

243.		me eggs at 3 for Rs.12.		253.		lling the mixture of milk	
		. the number of eggs he	bought is			pure milk, the quantity of	of water to
		b) 200			be mixed with 50 l		
		d) 190			(a) 2.5 kg	(b) 5 kg	
244.		ges at the rate of 8 for R			(c) 7.5 kg	(d) 10 kg	
		e of 12 for Rs. 57. How		254.		70 litres of milk for Rs. 6	
		old to earn a met profit	of Rs. 45?			ater. If the sells it at Rs. 9	0.00 per
		b) 100			litre, his profit per		
245		d) 150	l 10 hooles		(a) 41/5%	(b) 7%	
243.		oks for Rs. 100 and solo entage of profit per boo		255	(c) 42/5%	(d) 50/7% 20% profit by selling mil	k miyad
		b) 11.5	JK 3010 13	233.		per liter. If the cost price	
	, ,	d) 21				tio of milk and water in t	
246		pens at the rate of 7 for	· Rs. 10		mixture is:	(a 3 : 1	(b) 4: 1
		profit of 40%. How man			(c) 3 : 2	(d) 4:3	(6) 1. 1
	would a customer go			256.		ght 15 kg of rice at the ra	te of Rs. 29
		b) 4				f rice at the rate of Rs. 20	
		d) 3				f both types of rice at the	
247.		a number of articles at I	Rs. 10 for			it in this transaction is	
		number for Rs. 14 each.			(a) Rs. 125	(b) Rs. 150	
	them together and s	old them for Rs. 13 eac	h. Then his		(c) Rs. 140	(d) Rs. 145	
	gain or loss percent	is.		257.	Two blends of a co	mmodity costing Rs. 35	and Rs. 40
	(a) Loss 25/3 % (b) Gain 25/3			per kg respectively	are mixed in the ratio 2	: 3 by
		d) Gain 25/3 %		4		of the mixture is sold at	
248.		me oranges at the rate				ing at the rate Rs. 55 per	kg, the
		ity at 5 for 60. If he sells			profit percent is		
		of 3 for 50, find his gain	or loss		(a) 50	(b) 20	
	percent (to the near			270	(c) 40	(d) 30	. 050()
	(a) 34% loss (b) 31% profit	40	258.		the water with milk to ga	
	(c) 31% loss (d) 32% profits				e at cost price. The ratio o	of water
249		ncreased by 20%, By w	hat		and milk is	(b) 1 . F	
247.		ould decrease its consur			(a) 5 : 4 (c) 4 : 5	(b) 1:5 (d) 1:4	
	that expenditure ren			259		at Rs. 720 there is a loss	equal to
		b) 140/3%		237,		balls. The cost price of a	
	A 1				(a) Rs. 45	(b) Rs. 50	ball is .
250		d) 50/3%	D- 0 F0		(c) Rs. 60	(d) Rs. 55	
250.		of wheat at the rate of		260.		books for Rs. 2,000 and s	old them
		the same amount of what and mixed them. She	icat at the			the selling price of 5 boo	
	mivture at the rate	of Rs. 8.90 per kg. Her to	atal profit		selling price of 1 b		
	or loss in the transai		rtai pront		(a) Rs. 100	(b) Rs. 120	
		b) Rs. 2 profit			(c) Rs. 150	(d) Rs. 200	
		d) Rs. 6 profit		261		s Mahesh suffered a loss	equal to
251.		ieties of tea one costing	Rs. 180	201.		96 hens. His loss percen	
		ting Rs. 200 per kg in th					C 15
		nded variety at Rs. 210			(a) 40	(b) 30	
	then her gain is	18 1000 1947 verdess in 1824 1830 vi d e 1950 vide verd 1860 verd 1860 vide 1860 vide 1860 vide 1860 vide 1860 vi		262	(c) 50	(d) 41	ı
	(a) 110 percent (b) 11 percent		262.		cils, a shopkeeper gains t	ne seiling
	(c) 12 percent (d) 13 percent				. His gain percent is	
252.		nt 80 kg of sugar at the			(a) 25 (c) 15	(b) 20 (d) 12	
		ked it with 120 kg of รนรู		263		ball pens, a shopkeeper	arned the
		er to make a profit of 20)%, he	200.		selling price of 4 ball per	
	must sell the mixtur				profit percent is	seming price of 4 ball per	1110
	(a) Rs. 18 per kg (b) Rs. 17 per kg	(D.D. 45			(b) 40	
	(c) Rs. 16.40 per kg		(d) Rs. 15		(a) 50	(b) 40	
	per kg				(c) 100/3	(d) 125/4	

264. B	y selling 33 meters	s of cloth a person	gains the cost
p	rice of 11 meters. F	find his gain%	

- (a) 100/3%
- (b) 67/2%
- (c) 33%
- (d) 103/3%
- 265. A cloth merchant on selling 33 meters of cloth obtains a profit equal to the selling price of 11 meters of cloth the profit is
 - (a) 40%
- (b) 22%
- (c) 50%
- (d) 11%
- 266. By selling 25 meters of cloth a trader gains the selling price of 5 meters of cloth. The gain of the trader in %
 - (a) 25
- (b) 20
- (c) 28
- (d) 29
- 267. An item costing Rs. 840 was sold by a shopkeeper at a gain of 10% and it was again sold by the new buyer at a loss of 5%. Find selling price of the item is:
 - (a) Rs. 877.80
- (b) Rs. 798
- (c) Rs. 924
- (d) Rs. 37.80
- 268. By selling an article at 2/3 of the marked price, there is a loss of 10%, The profit percent, when article is sold at the marked price is:
 - (a) 20 %
- (b) 30%
- (c) 35%
- (d) 40%
- 269. A merchant fixes the sale price of his goods at 15% above the cost price, He sells his goods at 12% less than the fixed price. His percentage of profit is:
 - (a) 5/2
- (b) 6/5
- (c) 3/2
- (d) 2
- 270. A person sells an article for Rs. 75 and gains as much percent as the cost price of the article in rupees. The cost price of the article is
 - (a) Rs. 37.50
- (b) Rs. 40
- (c) Rs. 50
- (d) Rs. 150
- 271. I purchased 120 exercise books at the rate of Rs. 3 each and sold 1/3 of them at the rate of Rs. 4 each 1/ 2 them at the rate of Rs. 5 each and the rest at the cost price, My profit percent was
 - (a) 44%
- (b)400/9%
- (c) 134/3%
- (d) 45%
- 272. A merchant buys an article for Rs. 27 and sells it at a profit of 10% of selling price. The selling price of the article is a
 - (a) Rs. 29.70
- (b) Rs. 30
- (c) Rs. 37
- (d) Rs. 32
- 273. A clock was sold for Rs. 144. If the percentage of profit was numerically equal to the cost price the cost of the clock was
 - (a) Rs. 72
- (b) Rs. 80
- (c) Rs. 90
- (d) Rs. 100
- 274. If the price of eraser is reduced by 25%. A person can buy 2 more erasers for a rupee. How many erasers are available for a rupee after reduction?
 - (a) 8
- (b) 6
- (c) 4
- (d) 2

- 275. Raghavan purchased a scooter at 13/15 of its seiling price and sold it at 12% more than its selling price. His gain is.
 - (a) 20%
- (b) 30%
- (d)380/13% (c) 495/13%
- 276. By what percent must the cost price be raised in fixing the sale price in order that there may be a profit of 20% after allowing a commission of 10?
 - (a) 25
- (b) 400/3
- (c) 100/3
- (d) 30
- 277. Two-third of a consignment was at a profit of 5% and the remainder at a loss of 2%. If the total profit was Rs. 400, then the value of the consignment was
 - (a) Rs. 15,000
- (b) Rs. 15,500
- (c) Rs. 16.000
- (d) Rs. 16,500
- 278. A man buys a field of agricultural land for Rs. 3,60,000. He sells two-fifths at a gain of 25%. At what price must be sell the remaining field so as to make an overall profit of 10%?
 - (a) Rs. 1,00,000
- (b) Rs. 1, 15,000
- (c) Rs. 2,16,000 (d) Rs. 1,25,000
- 279. A dealer sold 3/4 of his articles at a gain of 20% and the remaining at cost price. The gain percent earned by him in the whole transaction is
 - (a) 13
- (b) 14
- (c) 15
- (d) 16
- 280. A man buys some articles at Rs. P per dozen and sells them at Rs. P/8 per piece. His profit percent is
- (b) 40
- (c)50
- (d) 60
- 281. By selling an article, a man makes a profit of 25% of its selling price. His profit percent is
 - (a) 20
- (b) 25
- (c) 50/3
- (d) 100/3
- 282. If there is a profit of 20% on the cost price of an article, the percentage of profit calculated on its selling price will be
 - (a) 24
- (b) 50/3
- (c) 25/3
- (d) 20
- 283. A cloth merchant sold half of his cloth at 20% profit, half of the remaining cloth at 20% loss and the rest was sold at his cost price. In the total transaction, his gain or loss will be
 - (a) 5% profit
- (b) Neither loss nor gain
- (c) 5% loss
- (d) 10% profit
- 284. A man bought 20 dozen eggs for Rs. 720. What should be the selling price of each egg if he wants to make a profit of 20%?
 - (a)Rs. 3.25
- (b) Rs. 3.30
- (c) Rs. 3.50
- (d) Rs. 3.60
- 285. A vendor sells lemons at the rate of 5 for Rs. 14. gaining hereby 40%. For how much did he buy a dozen lemons
 - (a) 20
- (b) Rs. 21
- (c) RS. 24
- (d) RS. 28

286.	Mahesh purchased	a radio at 9/10 of its selling price		600 and incurs a lo	oss of 1/6 of his Outlay	y, the cost
		nore than its original selling price.		price of A is		
	His gain percent is			(a) Rs. 600	(b) Rs. 500	
		(b) 18%		(c) Rs. 720	(d) Rs. 800	
		(d) 8%	298.		e, paying 5% less than	the original
287.		n article at 4/5 of its list price and			h 20% profit on the pr	
		e than the list price. Richa's profit			t of profit did A. earn o	
	percent was	g 2		original price?	and a suite of the state of the suite of the	
		(b) 40		(a) 10	(b) 13	
		(d) 25		(c) 14	(d) 17/2	
288.		ween the selling price of an article	299	Two items A and E	are sold at a profit of	10% and
		and at a profit of 10% is Rs. 10. The			If the amount of profit	
	cost price of the ar			the same, then the	cost price of A and B	may be
	5 (a) For a construction of the con-	(b) Rs. 120		(a) Rs. 1,000, Rs. 1	,500	(b) Rs
		(d) Rs. 200		5,000, Rs. 2,000		
289.		ween the selling price and cost		(c) Rs. 3,000, Rs. 2	,000	(d) Rs.
		s Rs. 210. If the profit percent is 25,		3,000, Rs. 5,000		
	then the selling pri		300		land for Rs. 96,000. Sl	
		(b) 1,050			he wants to make a pr	
		(d) Rs. 1,250			saction by selling the r	
290.		tween the selling prices of an		land. The gain % o	n the remaining land i	is
		6% and 4% is Rs. 3. Then the cost		(a) 20	(b) 62/3	
	price of the article			(c) 14	(d) 7	
		(b) Rs. 150			his gods at half the lis	st price and
201		(d) Rs. 200			e had sold on the liste	
291.		n article is reduced by 60%, then		gain percentage w	ould be	
		0% on cost price. The initial profit		(a) 60%	(b) 72%	
	percent was:	73.00		(c) 20%	(d) 35%	
		(b) 80	302.		or Rs. 25 and sells it fo	or Rs. 30. His
		(d) 125		gain percent is		
292.		95% of the selling price, what is the		(a) 20%	(b) 10%	
	profit percent?	4		(c) 5%	(d) 2.5%	
		(b) 4.75	303.		if an article is sold at I	Rs. 270. Then
202		(d) 5.26		the cost price of th		
293.	If the cost price is s	90% of the selling price, what is the		(a) Rs. 320	(b) Rs. 250	
	profit percent?	(b) 4.75	204	(c) Rs. 270	(d) 300	de ana italia
		(b) 4.75 (d) 100/9	304		is increased by 20%, t	
201	(c) 5	cloth was reduce by 25%, the			Change in his salary (b) 4% increased	15:
274.		onsumption increased by 20%			(d) neither decrease	nor increase
		t on gross receipt of the shop?	305		nis profit as 20% of the	
			505	His actual profit is		e seming price.
	(a) 5% increase			(a) 20%	(b) 22%	
	(c) 10% increase			(c) 25%	(d) 30%	
295.		h of his articles at a gain of 24%	306.		book is Rs. 150. At wh	nat price
		ost price . Then the percentage of		should it be sold to		
	gain in the whole t			(a) Rs. 120	(b)Rs. 180	
	(a) 15	(b) 18		, ,		
		(d) 32	207	(c) Rs. 100	(d) Rs. 80	at note non
296.		for Rs. 1,690 earned 30% profit on	30/.		nt at 7 for Rs. 3. At whay y be sold to gain 33%?	
	the cost price, The	n the cost price is				
	(a) Rs. 507	(b) Rs. 630		(a) Rs. 56	(b) Rs. 60	
		(d) Pc 130		(c) Rs. 60	(d) Rs. 57	

308. A loss of 20% is incurred when 6 articles are sold for

(b) 2

sold for a rupee?

(a) 1

a rupee. To gain 20% how many are items should be

(c) Rs. 1,300

(d) Rs. 130

297. A sells an article to B making a profit of 1/5 of his outlay. B sells it to C, gaining 20%. If C sells it for Rs.

(c) 3	(d) 4

- 309. By selling 12 oranges for Rs. 60, a man loses 25%. The number of oranges he has to sell for Rs. 100, so as to gain 25% is
 - (a) 10
- (b) 11
- (c) 12
- (d) 15
- 310. By selling 4 articles for 1 rupee, a man losses 4%. Had he sold three articles per rupees, the profit would have been:
 - (a) 30%
- (b) 28%
- (c)16%
- (d) 12%
- 311. By selling 80 ball pens for Rs. 140 a retailer losses 30%. How many ball pens should he sell for Rs. 104 so as to make a profit of 30%?
 - (a)32
- (b) 52
- (c)48
- (d) 42
- 312. By selling 90 ball pens for Rs. 160 a person loses 20%. The number of ball pens, which should be sold for Rs. 96 so as to have a profit of 20% is
 - (a)36
- (b) 37
- (c)46
- (d) 47
- 313. The loss incurred on selling 21 articles equals the selling price of 3 articles. Then the loss percent is
 - (a)100/11%
- (b)10%
- (c)25/2%
- (d) 100/9%
- 314. A man sold 250 chairs and had a gain equal to selling price of 50 chairs. His profit percent is:
 - (a)20%
- (b)25% (d) 15%
- (c)50%
- 315. A vendor loses the selling price of 4 oranges on selling 36 oranges. His loss percent is
 - (a)25/2%
- (b)9%
- (c)10%
- (d) 25/2%
- 316. If bananas are bought at the rate of 4 for a rupee, how many must be sold for a rupee so as to gain 100/3%.
 - (a)4
- (b) 3
- (c)2.5
- (d)2
- 317. By selling 12 kg of potatoes for 63, a shopkeeper gains 5%. What does his gain or lose percent by selling 50 kg of the same potatoes for 247.50?
 - (a) 1% profit
- (b) 1% loss
- (c) No profit no loss

(d) 2.5

profit

- 318. By selling 14 watches of equal cost price at the rate of Rs. 450 each, there is a profit equal to the cost price of 4 watches. The cost price of a watch is
 - (a) Rs. 350
- (b) Rs. 360
- (c) Rs. 375
- (d) Rs. 400
- 319. Nikita bought 30 kg of wheat at the rate of Rs. 9.50 per kg of wheat and the same amount of wheat at the rate of Rs. 8,50 per kg and mixed them. She sold the mixture at the rate of Rs. 8.90 per kg. Her total profit or loss in the transaction was
 - (a) Rs. 2 loss
- (b) Rs. 2 profit
- (c) Rs. 6 loss
- (d) Rs. 6 profit

- 320. A man buys 12 articles for Rs. 12- and sells them at the rate of Rs. 1.25 per article. His gain percentage is :
 - (a) 20
- (b) 25
- (c) 15
- (d) 18
- 321. A trader bought 10 kg of apples for Rs. 405 out of which 1 kg of apples were found to he rotten. If he wished to make a profit of 10% at what rate should he sell the remaining apples per kg?
 - (a) 49.5
- (b) 48
- (c) 46
- (d) 47
- 322.12 copies of a book were sold for Rs. 1800 there by gaining cost price of 3 copies. The cost price of a copy is:
 - (a) Rs. 120/-
- (b) Rs. 150/-
- (c) Rs. 1200/-
- (d) Rs. 1500/-
- 323. A book-seller bought 200 textbooks for Rs. 12,000. He wanted to sell them at a profit so that he got 20 books free, At what profit percent should he sell them?
 - (a) 10
- (b) 11
- (c) 11.5
- (d) 12
- 324. If the sales tax be reduced from 7/2% to 10/3%, what difference does it make to person who purchases all article whose marked price is Rs. 8,400?
 - (a) Rs. 20
- (b) Rs. 15.
- (c) Rs. 14
- (d) Rs. 10
- 325. In terms of percentage profit which is the best transaction? C. P. (in Rs.) (I) 36 (II) 50 (III) 40 (IV) 60

	C. P. (in Rs.)	Profit (in Rs.)
(1)	36	17
(II)	50	24
(III)	40	19
(IV)	60	29

- (a)I
- (b) II
- (c) II
- (d) IV
- 326. A man bought an old typewriter for Rs. 1200 and spent Rs. 200 on its repair. He sold it for Rs. 1680. His profit percent is;
 - (a) 20%
- (b) 10%
- (c) 8%
- (d) 16%
- 327. The cost price of two dozen bananas is Rs. 32. After selling 18 bananas at the rate of Rs. 12 per dozen, the shopkeeper reduced to rate as Rs. 4 per dozen, The percent loss is
 - (a) 25.2% (c) 36.5%
- (b) 32.4% (d) 37.5 %
- **328.** The price of a jewel, pas sing through three hands. rises on the whole by 65%. If the first and the second sellers earned 20% and 25% profit respectively, the profit earned by the third seller is
 - (a) 20%
- (b) 15%
- (c) 10%
- (d) 5%

329. A person buys 10 cups at Rs. 10 each. On 20 cups are broken sells the remaining cups at Rs. 11 each. His loss percent is:

(a) 15

(b) 10

(c) 35/2

- (d) 12
- 330. If the cost of pins reduces by Rs. 4 per dozen, 12 more pins can be purchased for Rs. 48. The cost of pins per dozen after reduction is:

(a) Rs. 8

(b) Rs. 12

- (c) Rs. 16
- (d) Rs. 20
- 331. A piece of land came to a person through three middleman each gaining 20%. If the person purchased the land for Rs. 3,45,600 the original cost of the land was:

(a) Rs. 1,00,000

(b) Rs. 1,50,000

(c) Rs. 1.75.800

- (d) Rs. 2.00.000
- 332. If a man estimates his loss as 20% of the selling price, then his loss percent is:

(a) 20%

(b) 25%

(c)40/3%

- (d)50/3 %
- 333. A person bought two articles A and B for Rs. 5,000. he sold A at 20% profit and B at 10% loss. He thus gained 2% on his out lay. The cost price of A was

(a) Rs. 3,000

(b) Rs. 2,500

(c) Rs. 2,000

- (d) Rs. 3,500
- 334. A person sold a TV for Rs. 9,400 then he lost a particular amount, When he sold another TV of the same type at Rs. 10,600, his gain was double the former loss, What was the cost price of each TV

(a) Rs. 9,800

(b) Rs. 10,000

(c) Rs. 10,200

- (d) Rs. 10,400
- 335. A man sold 20 apples for Rs. 100 and gained 20%. How many apples did he buy for Rs. 100?

(a) 20

(b) 22

(c) 24

- (d) 25
- 336. A person bought 50 pens for Rs. 50 each. He sold 40 of them at a loss of 5%. he wants to gain 10% on the whole. Then his gain percent on the remaining pens should be

(a) 15

(c)50

- 337. A cloth merchant sold half of his cloth at 40% profit, half of remaining at 40% loss and the rest was sold at the cost price. In the total transaction his gain or loss will be

(a) 20% gain

(b) 25% loss

(c) 10% gain

- (d) 15% loss
- 338. A person sold an article at 20% profit on the selling price. After wards, when the cost price reduced by 10%, then he also reduced the selling price by 10%. His percentage of profit on cost price will be
 - (a) 30

(b) 25

(c) 22.5

(d) 12.5

339. A salesman expects a gain of 13% on his cost price, if in a month his sale was Rs. 7,91,000, what was his profit?

(a) Rs. 85,659

(b) Rs. 88,300

(c) Rs. 91,000

(d) Rs. 97,786

340. By selling a car for Rs. 64,000 Mr. Rao lost 20%, Then the cost price of the car is:

(a) Rs. 72,000

(b) Rs. 76,800

(c) Rs. 80,000

(d) Rs. 84.000

341. A retailer buys a radio for Rs. 225, . His overhead expenses are Rs. 15. He sells the radio for Rs. 300. The profit percent of the retailer is:

(a) 25

(b) 80/3

- (c) 20 (d) 100/3
- 342. Ramesh bought 10 cycles for Rs. 500 each. He spent Rs. 2,000 on the repair of all cycles. He sold five of them for Rs. 750 each and the remaining for Rs. 550 each. Then the total gain or loss % is

(a) Gain of 25/3%

(b) Loss

of 25/3%

(c) Gain of 23/3%

(d) Loss

of 50/7%

343. A man sells an article at 5% above the cost price. If he had bought it at 5% less than what he paid for it and sold it for Rs. 2 less, he would have gained 10%. The cost price of the article is

(a) Rs. 250

(b) Rs. 350

(c) Rs. 200

- (d) Rs. 400
- 344. A man purchase 150 pens at the rate of Rs. 12 pen. He sold 50 pens at a gain of 10%. The percentage gain at which he must sell the remaining pens so as to gain 15% on the whole outlay is

(a) 43/2%

(b) 20%

(c) 17%

- (d) 35/2%
- 345. A trader purchases a watch and a wall clock for Rs. 390. He sells them making a profit of 10% on the watch and 15% on the wall clock. He earns a profit of Rs. 51.50. the difference between the original price of the wall clock and the watch is equal to

(a) Rs. 80

(b) Rs. 120

(c) Rs. 110

- (d) Rs. 100
- 346. A merchant fixed the selling price of his articles at Rs. 700 after adding 40% profit to the cost price. As the sale was very low at this price level, he decided to fix the selling price at 10% profit. Find the new selling price.

(a) Rs. 500

(b) Rs. 550

(c) Rs. 450

- (d) Rs. 490
- 347. From 2008 to 2009, the sales of a book decreased by 80%. If the sales in 2010 were the same as in 2008, by what percent did it increase from 2009 to 2010?

(a) 120%

(b) 400%

(c) 80%

(d) 100%

348. The cost price of a radio is Rs. 600 . The 5% of the cost price is charged towards transportation. After adding that, If the net profit to be made is 15%, them the selling price of the radio must be

(c) Rs. 664.50 (d) Rs. 684,50 349. A shopkeeper purchased a TV for Rs. 2,000 and a radio for Rs. 750. He sells the TV at a profit of 20% and the radio at a loss of 5%. The total loss or gain is (a) Gain Rs. 352.50 (b) Gain Rs. 362.50 (c) Loss Rs. 332 (d) Loss Rs. 300 350. The total cost of 8 buckets and 5 mugs is Rs. 92 and the total cost of 5 buckets and 8 mugs is Rs. 77. Find the cost of 2 mugs and 3 buckets. (a) Rs. 35 (b) Rs. 70 (d) Rs. 38 (c) Rs. 30 351. A man bought a horse and a carriage for Rs. 40,000. He sold the horse at a gain of 10% and the carriage at a loss of 5%. He gained 1% on his whole transaction. The cost price of the horse was: (a) Rs. 15000 (b) Rs. 16000 (d) Rs. 20000 (c) Rs. 18000 352. A person bought two bicycles Rs. 1600 and sold the first at profit and the second at 20% profit If he sold the first at 20% profit and the second at 10% profit. He would get Rs. 5 more. The difference of the cost price of the two bicycles was: (a) Rs. 50 (c) Rs. 25 (b) Rs. 40 (d) Rs. 75 353. A man buys 3 cows and 8 goats in Rs. 47,200, Instead if he would have bought 8 cows and 3 goats he had to pay Rs. 53,000 more. Cost of one cow is: (b) Rs. 12,000 (a) Rs. 11,000 (d) Rs. 10,000 (c) Rs. 13,000 354. A fruit seller buys 240 apples for Rs. 600. Some of these apples are bad and are thrown away, He sells the remaining apples at Rs. 3.50 each and makes a profit of Rs. 198, The% of apples thrown away are? (a) 6% (b) 5% (c) 4% (d) 7% 355. A vendor purchased 40 dozen bananas for Rs. 250. Out of these 30 bananas were rotten and could not be sold. At what rate per do should he sell the remaining bananas to make a profit a of 20%. (a)Rs. 12 (b) Rs. 10 (c) Rs. 8 (d) Rs. 6 356. If a chair sold for Rs, 600 at the profit of 20%, then the original price of the chair is: (a) Rs. 540 (b) Rs. 500 (c) Rs. 480 (d) Rs. 580 357. Pawan kaul earns 15 percent on an investment but loses 10 percent on another investment. If the ratio of two investments is 3:5, then the combined loss percent is (a) 5/4(b) 4/5(c) 8/5(d) 5/8

358. A trader sells two bullocks for Rs. 8,400 each, neither. losing nor gaining in total. If he sold one of the bullocks at a gain of 20%, the other is sold at a loss of

(b) Rs. 724.50

(a) Rs. 704.50

- (a) 20% (b) 164/9% (c) 100/7% (d) 21%
- **359.** A merchant has 1000 kg Sugar, part of which he sell at 8% profit and the rest at 18% profit. He gains 14% on the whole. The quantity sold at 8% profit is :
 - (c) 400 kg (d) 560 kg
- **360.** A trader lists his article 20% above the cost price and allows a discount of 10% on cash payment. His gain percent is
 - (a) 8% (b) 5% (c) 10% (d) 6%

ANSWER:

	1 a	2 c	3 d	4 b	5 c	6 b
	7 a	8 a	9 d	10 d	11 d	12 b
	13 a	14 a	15 d	16 d	17 d	18 a
	19 b	20 b	21 d	22 b	23 b	24 d
	25 c	26 d	27 d	28 b	29 d	30 c
	31 c	32 c	33 c	34 c	35 d	36 a
	37 c	38 d	39 c	40 b	41 c	42 b
ı	43 c	44 d	45 a	46 c	47 b	48 b
	49 d	50 b	51 d	52 d	53 d	54 c
٩	55 c	56 b	57 d	58 d	59 a	60 d
	61 a	62 c	63 d	64 c	65 a	66 d
	67 b	68 a	69 c	70 c	71 b	72 b
	73 c	74 a	75 b	76 c	77 c	78 b
	79 c	80 a	81 a	82 c	83 d	84 b
	85 d	86 c	87 d	88 b	89 c	90 a
	91 a	92 c	93 b	94 d	95 d	96 c
	97 c	98 b	99 b	100 a	101 a	102 b
	103 b	104 a	105 b	106 b	107 a	108 b
	109 c	110 a	111 b	112 d	113 c	114 c
	115 c	116 a	117 b	118 c	119 a	120 c
	121 a	122 b	123 c	124 a	125 a	126 d
	127 a	128 b	129 b	130 b	131 d	132 d
	133 a	134 b	135 b	136 d	137 c	138 d
	139 b	140 b	141 d	142 a	143 d	144 b
	145 c	146 d	147 d	148 a	149 a	150 a
	151 d	152 c	153 d	154 b	155 d	156 a
	157 c	158 d	159 d	160 a	161 c	162 c
	163 c	164 b	165 d	166 d	167 c	168 c
	169 d	170 a	171 d	172 c	173 c	174 c
	175 a	176 c	177 d	178 d	179 b	180 b
	181 b	182 d	183 a	184 a	185 b	186 d
	187 c	188 c	189 c	190 a	191 a	192 a
	193 d	194 d	195 c	196 c	197 c	198 c
	199 c	200 a	201 a	202 c	203 c	204 d
	205 b	206 c	207 d	208 d	209 c	210 c
	211 d	212 b	213 d	214 d	215 a	216 b
	217 b	218 c	219 d	220 b	221 c	222 c

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223 a 224 b 225 a 226 a 227 c 228 b
229 c 230 c 231 c 232 a 233 d 234 c
235 d 236 b 237 c 238 d 239 a 240 b
241 c 242 c 243 d 244 a 245 d 246 c
247 d 248 d 249 d 250 c 251 c 252 a
253 b 254 d 255 a 256 d 257 c 258 d
259 c 260 a 261 a 262 a 263 a 264 a
265 c 266 a 267 a 268 c 269 b 270 c
271 b 272 b 273 b 274 a 275 d 276 c
277 a 278 c 279 c 280 c 281 d 282 b
283 a 284 d 285 c 286 a 287 a 288 d
289 b 290 b 291 d 292 d 293 d 294 d
295 b 296 c 297 b 298 c 299 c 300 b
301 a 302 a 303 d 304 a 305 c 306 b
307 d 308 d 309 c 310 b 311 a 312 a
313 c 314 b 315 c 316 b 317 b 318 a
319 c 320 b 321 a 322 a 323 a 324 c
325 d 326 a 327 d 328 c 329 d 330 b
331 d 332 d 333 c 334 a 335 c 336 d
337 c 338 b 339 c 340 c 341 a 342 d
343 c 344 d 345 c 346 b 347 b 348 b
349 b 350 a 351 b 352 a 353 b 354 b
355 c 356 b 357 d 358 c 359 c 360 a
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- 1. (a) Given 36 CP = 30 SP $CP/SP = \frac{30}{36} = \frac{5}{6} = 1 \text{ Profit}$ $Profit \% = \frac{Profit}{CP} \times 100 = \frac{1}{100}$ $\frac{1}{5} \times 100 = 20\%$
- (c) Given

$$\frac{CP}{SP} = \frac{10}{15} = \frac{2}{3} > 1 (Profit)$$

Profit % = $\frac{Profit}{CP} \times 100 = \frac{1}{2} \times 100 = 50\%$

- $\frac{15 \text{ CP}}{SP} = \frac{10 \text{ SP}}{15} = \frac{2}{3} \qquad 1 \text{ (Profit)}$ Profit % = $\frac{Profit}{CP} \times 100 = \frac{1}{2} \times 100 = 50\%$ (d) Given, SP of 5 articles = CP of 3 articles $\frac{SP}{CP} = \frac{3}{5}$ Thus, Loss = 5 3 = 2 3. Loss = $\frac{2}{5} \times 100 = 40\%$
- (b) According to question, SP of 3 toys = CP of 4 toys $SP/CP = \frac{4}{2} > 1 Gain$ Gain% = $\frac{Gain}{CP} \times 100$ Gain % = $\frac{1}{3} \times 100 = 33\frac{1}{3}\%$
- 5. (c) According to question, CP of 15 tables = SP of 20 tables $\frac{CP}{SP} = \frac{20}{15}$ 5 units loss

Thus, $\% = 5/20 \times 100 = 25\%$

- 6. (b) According to question, CP of 18 articles = SP of 15 articles $\frac{CP}{SP} = \frac{15}{18} > 3$ unit profit Profit % = $\frac{3}{15} \times 100 = 20\%$ Profit
- (a) According to question, $\frac{CP}{SP} = \frac{5}{4} > 1 \text{ unit loss}$ Loss % = $\frac{1}{5}$ = 20% loss 7.
- (a) According to question, $\frac{CP}{SP} = \frac{20}{21}$ 1 unit profit Profit % = $\frac{1}{20} \times 100 = 5$ %.
- (d) According to question $\frac{SP}{CP} = \frac{8}{5} \times CP$ $\frac{SP}{CP} = \frac{8}{5} > 3 \text{ gain}$ $Gain \% = \frac{3}{5} \times 100 = 6 \%$
- (d) According to question, CP of 25 articles = SP of 20 articles $\frac{CP}{SP} = \frac{20}{25} \rightarrow \frac{4}{5} \rightarrow 1 Profit$ Profit % = $\frac{10}{40} \times 100 = 25\%$
- (d) According to question, $\frac{CP}{SP} = \frac{40}{50} > 10 Profit$ Profit % = $\frac{10}{40} \times 100 = 25\%$
- (b) According to question, 12 CP = 10 SP $\frac{CP}{SP} = \frac{10}{12} \rightarrow \frac{5}{6} \qquad 1 \ Profit$ Profit % = $\frac{1}{5} \times 100 = 20\%$
- 13. (a) According to question, 10 CP = 9 SP $\frac{CP}{SP} = \frac{9}{10} > 1 Profit$ Profit % = $\frac{1}{9} \times 100 = 11\frac{1}{9}\%$ Loss% = $\frac{12}{32} \times 100 = 37.5\%$
- 14. (a) According to question $\frac{CP}{SP} = \frac{5}{6}$ 1 Unit Profit Profit% = $\frac{Profit}{CP} \times 100 = \frac{1}{5} \times 100 = \frac{1}{5}$ 20%
- 15. (d) According to question, CP SP 100 152

52%
$$\times \frac{1}{2}$$

Actual SP Rs. 76

152 unit's → Rs. 76 Unit $\Rightarrow \frac{76}{152} \Rightarrow = \frac{1}{2}$ 100 units $\rightarrow \frac{1}{2} \times 100 = 50$ $CP \rightarrow Rs. 50$ Thus, If SP \rightarrow Rs. 75 Profit % = $\frac{25}{50} \times 100 = 50\%$

16. (d) According to question, 12 CP = 8 SP $\frac{CP}{SP} = \frac{8}{12} = \frac{2}{3} > 1 \text{ profit}$

Profit % = $\frac{1}{2} \times 100 = 50\%$

- (d) According to question, 8 CP = 9 SP $\frac{CP}{SP} = \frac{9}{8} > 1 loss$ $Loss\% = 1/9 \times 100$ $=\frac{100}{9}\%$ loss
- (a) According to question, 18. Let the total no. of item = 100 units The CP of 1 item = Rs. 1Given, 16 SP = 20% of item of CP 16 SP = 20 CP $\frac{CP}{SP} = \frac{16}{20} = \frac{4}{5} \quad 1 \ profit$ Profit % = $\frac{1}{4} \times 100 = 25\%$
- (b) According to question, 19. 10CP = 7SP $\frac{CP}{SP} = \frac{7}{10} > 3 \text{ units}$ Profit % = $\frac{3}{7} \times 100 = 42 \frac{6}{7} \%$
- (b) According to question, 2750 CP = 2500 SP $\frac{CP}{SP} = \frac{2500}{2750} = \frac{10}{11}$ 1 units Profit % = 1/10 × 100 = 10% gain
- (b) According to question, $\frac{CP}{SP} = \frac{20}{15} = \frac{4}{3}$ 1 units Loss % = $\frac{1}{4} \times 100 = 25\%$
- 22. (b) According to question, 10CP = 16SP $\frac{CP}{SP} = \frac{16}{10} = \frac{8}{5} > 3 \text{ units loss}$ Loss $\% = 3/8 \times 100 = 37.5\%$

- 23. (b) According to question, 10 CP = 16SP $\frac{CP}{SP} = \frac{18}{10} = \frac{9}{5}$ 4 units loss loss% = $\frac{4}{9} \times 100 = 44 \frac{4}{9} \%$
- (d) According to question 10 SP = 13 CP $\frac{SP}{CP} = \frac{13}{10} >$ 3 units profit Profit% = $3/10 \times 100 = 30\%$
- (c) According to Question, 20 CP = 15 SP $\frac{CP}{SP} = \frac{15}{20} = \frac{3}{4} > 1$ unit profit Profit % = $1/3 \times 100 = 33\frac{3}{1}\%$
- (d) According to question, 20 CP = 15 SP $\frac{CP}{SP} = \frac{15}{20} = \frac{3}{4}$ 1 unit profit
- (d) According to question, 24 CP = 18 SP CP = 80% of SP $CP = \frac{80}{100} SP$ $\frac{CP}{SP} = \frac{80}{100} = \frac{4}{5}$ 1 unit Profit $\% = \frac{1}{4} \times 100 = 25\%$
- (b) According to question, 15 CP = 12 SP $\frac{CP}{SP} = \frac{12}{15} = \frac{4}{5}$ 1 unit profit Profit $\% = \frac{1}{4} \times 100 = 25\%$
- 29. (d) According to question, 10 CP = 8 SP $\frac{CP}{SP} = \frac{8}{10} = \frac{4}{5}$ 1 unit profit Profit $\% = \frac{1}{4} \times 100 = 25\%$
- 30. (c) According to question, Let CP of 1'lemon is = Rs. 25%
- 31. (c) According to question, 12 SP = 15 CP $\frac{SP}{CP} = \frac{15}{12} = \frac{5}{4} > 1 \text{ unit profit}$ Profit % = \(\frac{1}{4} \times 100 = 25\)%
- According to question $b = \frac{200}{100} \times a$ $\frac{b}{a} = \frac{2}{1}$ $\frac{CP}{SP} = \frac{a}{b} = \frac{1}{2}$ 1 unit profit
 Profit % = $\frac{1}{1} \times 100 = 100\%$
- 33. (c) According to question,

100 SP = 320 CP

$$\frac{CP}{SP} = \frac{400}{320} = \frac{5}{4}$$
 1 units loss
Loss% = $\frac{1}{5} \times 100 = 20\%$

34. (c) According to question, 400 CP = 320 SP $\frac{SP}{CP} = \frac{400}{320} = \frac{5}{4} > 1 \text{ unit profit}$ $Profit \% = \frac{1}{4} \times 100 = 25\%$

35. (d) According to question, 18 CP = 16 SP $\frac{CP}{SP} = \frac{16}{18} = \frac{8}{9} \rightarrow 1 \ unit \ profit$ Profit % = $\frac{1}{8} \times 100 = 12.5\%$

36. (a) According to question, CP of toys = Rs. 5 SP of toys = Rs. 4.5 Loss = CP - SP = 5 - 4.5 = 0.5 Loss% = $\frac{0.5}{5} \times 100 = 10\%$

37. (c) According to question, $\frac{CP \text{ of } Refrigerator}{CP \text{ of } televison} = \frac{5}{3} \qquad 2 \text{ units}$

38. (d) CP of a book ranges between = 150 to 300 Rs.

SP of a book ranges between = 250 to 350 Rs.

For maximum profit CP should minimum & SP should be maximum

So, CP = 150 SP = 350 Profit = SP - CP = 350 - 150 = Rs. 200/book

Total Profit on 15 books = 200×15 = Rs. 3000

39. (c) According to the question, $= \Rightarrow 100 \text{ CP} = 60 \text{ SP}$ $\frac{CP}{SP} = \frac{60}{100} \Rightarrow 40 \text{ units profits}$ $= \text{Profit\%} = 40/60 \times 100 = 66\frac{2}{3}\%$

40. (b) According to the question, $\frac{CP}{SP} = \frac{10}{11} > 1 \text{ units Profit}$ % Profit = $\frac{1}{10} \times 100$ = 10%

41. (c) CP of 25 chairs = SP of 30 chairs 25 CP = 30 SP $\frac{CP}{SP} = \frac{30}{25} = \frac{CP}{SP} = \frac{6}{5}$ 1 unit loss

Loss% = $1/6 \times 100 = 16\frac{2}{3}\%$

42. (b) Basic Method
According to question,
First Machine gain = 10%
Thus, SP = 110% of CP

396 = $\frac{110}{100} \times CP$ COP = $(396 \times 100)/110$ = Rs. 360

for second Machine : - Loss = 10% Thus, SP = 90% of CP

 $396/ = \frac{90}{100} \times CP$

 $CP = 100 \times \frac{396}{90} = jRs. 440$

Total CP = Rs. (360 + 440)

= 792 Loss = Rs. 8 Loss% = $\frac{8}{800} \times 100 = 1 \% \ Loss$ Alternate:

Machine (1) Machine (2)

OP $10_{\times 9} = 90$ $10_{\times 11} = 110$ 10% profit + 10% Loss

SP $11_{\times 9} = 99$ $9_{\times 11} = 99$ Same SP

Total CP = 90 + 110 = 220Total SP = 99 + 99 = 198Loss = 200 - 198 = 2

 $Loss\% = \frac{2}{200} \times 100 = 1\%$

43. (c) According to question,

House Shop

CP $\begin{pmatrix} 10 & 10 & \\ 0\% & Loss & \\ 20\% & gain \\ SP & 8 & 12 & \\ for same SP & Total \\ CP & <math>10_{\times 12} = 120 & 10_{\times 8} = 80 & 20 & \\ \end{pmatrix}$

Loss = 8 units SP $8_{\times 12} = 96$ $12_{\times 8} = 96$ 192

ATQ 192 units = 2 lakhs 1 unit = $\frac{2}{192} \times 8 = \frac{1}{12} lakh$

44. (d) Quicker Approach.
Always loss in such type of questions.

Always loss in such type of questions. Loss % = $\frac{Loss\% \times Profit\%}{100}$

$$=\frac{20\times20}{100}$$
 = 4 % loss

(a) Quicker Approach:

Always loss in such type of questions
Loss% =
$$\frac{Loss\% \times Profit\%}{100}$$
 = $\frac{10 \times 10}{100}$ = 1% loss

46. (c) According to question,

Pipes - 1 Pipes - 2 Total
$$10_{\times 8} = 80$$
 $10_{\times 12} = 120$ 200 Loss

units

$$12_{\times 8} = 96$$
 $8 \times_{12} = 96$ 192

make SP same

192 units → Rs. 24

1 unit
$$\rightarrow \frac{24}{192}$$

 $8 \text{ units} \rightarrow 24/192 \times 8 = \text{Rs. } 1 \text{ loss}$

47. (b) In such type of question always loss = $(P\% \times L\%) = (10 \times 10)/100 = 1\%$ Alternate:

Tape – 1 Tape – 2 Total

CP
$$10_{\times 9} = 90$$
 $10_{\times 11} = 110$ 200

+ 10% Profit - 10% Loss

2 units loss

SP $11_{\times 9} = 96$ $9 \times_{11} = 99$ 198

to make SP same

Loss% =
$$\frac{2}{200} \times 100 = 1\%$$

48. (b) Quicker approach

$$= \frac{P\% \times L\%}{100} = (10 \times 10)/100 = 1\% \text{ loss}$$

Alternate:

Loss% = $\frac{2}{200} \times 100 = 1\%$

(d) According to question,

Article - 1 Article - 2 Total

CP
$$5_{\times 4} = 20$$
 $5_{\times 6} = 30$ 50 $+ 20\%$ Profit - 20% loss

2 unit loss

SP $6_{\times 4} = 24$ $4_{\times 5} = 24$ 48

to make SP same

Loss% =
$$\frac{2}{50} \times 100 = 4\%$$
 loss

Quicker approach =
$$\frac{P\% \times L\%}{100}$$
 = $(20 \times 20)/100$

= 4 % loss

50. (b) According to question,

TV Refrigerator Total

CP
$$5 \times 6 = 30$$
 $5 \times 4 = 20$ 50

unit loss

SP $4 \times 5 = 24$ $6 \times 4 = 24$ 48

(SP)

to make SP same

24000

48 unit's → Rs. 24000

1 unit
$$\rightarrow$$
 24000/48 = 500

 $50 \text{ unit} \rightarrow 500 \times 50 = \text{Rs.} 25000$

CP → Rs. 25000

 $SP \rightarrow Rs. 24000$

Loss = CP - SP = Rs. 1000

51. (d) According to question,

Bicycles - 1 Bicycles - 2 Total CP
$$20 \times 19 = 380$$
 $20 \times 21 = 420$

2 unit loss

to make SP of both bicycle same

Loss% =
$$\frac{2}{800} \times 100 = 0.25\% loss$$

52. (d) According to question,

Watch -1 Watch -2 Total

CP
$$5 \times 4 = 20$$
 $5 \times 6 = 50$ 50

unit loss

SP
$$4 \times 6 = 24$$
 $4 \times 6 = 24$ 48
Loss% $= \frac{2}{50} \times 100 = 4 \% loss$

53. (d) According to question,

TV - 1 TV - 2 Total CP
$$10 \times 9 = 90$$
 $10 \times 11 = 110$ 200

2 unit loss

SP 11 × 9 = 99 9 × 11 = 99 198
to make SP same of both TV

$$loss\% = \frac{2}{200} \times 100 = 1 \% loss$$

loss% =
$$\frac{2}{200} \times 100 = 1 \% loss$$

(c) According to questions,

Car Jeep Total

CP
$$5_{\times 6} = 30$$
 $5_{\times 4} = 20$ 50
- 20% loss + 20% profit

SP $4_{\times 6} = 24$ $6_{\times 4} = 24$ 48

to make SP same

48 units \rightarrow 240000 × 2

1 unit
$$\Rightarrow \frac{240000}{48} \times 2 = 10000$$

2 units \rightarrow 10000 × 2 = Rs. 20000

55. (c) Chair - 1 Chair 2 Total

CP
$$5_{\times 4} = 20$$
 $5_{\times 6} = 30$ 50

20 % profit -20% loss

2 units

SP $6 \times 4 = 24$ $4 \times 6 = 24$ 48

to make SP same of both chair

Loss% =
$$\frac{2}{50} \times 100 = 4\% \ loss$$

(c) According to question, 56.

Chair
$$-1$$
 Chair -2 Total

CP $\rightarrow 4_{\times 3} = 12 + 4_{\times 5} = 20$ 32

25% profit 25% loss

units loss

$$SP \rightarrow 5_{\times 3} = 15 + 3_{\times 5} = 15$$
 30

to make SP same

30 units =
$$120 \times 2 = 240$$

30 units =
$$120 \times 2 = 240$$

1 unit = $240 / 30$
2 units = $\frac{240}{30} \times 2 = 16 \text{ Rs}$

57. (d) Quicker approach

$$\Rightarrow \frac{P\% \times L\%}{100} = (20 \times 20)/100 = 4\% \text{ loss}$$

Note: In this type of question always loss.

(d) According to the question, 58.

Article
$$-1$$
 Article -2 Total CP $4 \times 3 = 12$ $4 \times 5 = 20$ 32 25% profit 25% loss 2

units loss

SP
$$5 \times 3 = 15$$
 $3 \times 5 = 15$ 30
Loss% $= \frac{2}{32} \times 100 = \frac{25}{1}\%$

59. (a) Shortcut method

$$= \frac{Profit \times Loss}{100} \rightarrow \frac{10 \times (-10)}{100} = -1 \% \text{ (Loss)}$$

60. (d) According to question,

Loss= 10%

$$\rightarrow$$
 SP = 100 - 10 = 90%

90% → 240 (given)

$$1\% \rightarrow \frac{240}{90}$$

To gain 20%

$$120\% = \frac{240}{90} \times 120 = Rs. 320$$

Alternate Method

$$10\% = \frac{1 \rightarrow Loss}{10 \rightarrow CP}$$

$$SP = 10 - 1 = 9$$

$$9 = 240$$
 (given)

1 unit =
$$\frac{240}{9}$$

to gain 20% =
$$\frac{2 \rightarrow Gain}{10 \rightarrow CP}$$

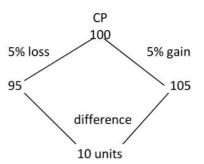
Thus, 12 units =
$$\frac{240}{9} \times 12 = Rs. 320$$

(a) ATQ Loss 20%

80% = 480

$$(Profit 20\%) = 480/80 \times 120 = 720$$

(c) According to question, 62.



10 units = Rs. 5
1 units = Rs.
$$\frac{5}{10}$$

= CP = 100 units = $\frac{5}{10} \times 100 = Rs$. 50

(d) According to question,

10% loss

10	1	9	
×8			×8
80		72	
Profit %	= 5%		
	105		

New SP =
$$80 \times \frac{105}{100} = 84$$

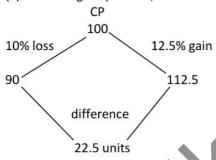
64. (c) According to question,

for 9% loss CP loss

100

 $\Rightarrow 1 \text{ unit } \Rightarrow \frac{105}{91}$ $\Rightarrow 130 \text{ unit } \Rightarrow \frac{105}{91} \times 30 = Rs. 150$

65. (a) According to question,



22.5 units = 9 1 unit = $9 \times \frac{2}{45}$ 100 units $2/5 \times 100$ = Rs. 40

66. (d) According to question,
Difference in Price = 400 - 350 = Rs. 50
as 5% = Rs. 50
1 % = Rs. 10

C.P. = 100% = 10 × 100 = Rs. 1000

(b) According to question,

CP Loss SP

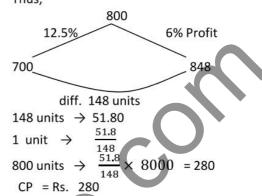
100 5% 95 → ×10

1000

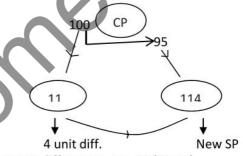
Thus, CP = Rs. 1000

SP = Rs. 1040

Profit = Rs. 40 Profit% = $\frac{40}{100}$ × 100 = 4% **68.** (a) According to question, $12\frac{1}{2}\%$ loss means = 1/8 or $\frac{100 \rightarrow Loss}{800 \rightarrow CP}$ Thus,



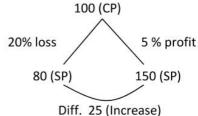
69. (C) According to question,



4 unit difference = Rs. 80 (Given) 1 unit \rightarrow 20

100 unit \rightarrow 20 × 100 = Rs. 2000 CP of table = Rs. 2000

70. (c) According to question,



25 units \rightarrow 100 1 unit \rightarrow 4 100 units \rightarrow 4 × 100 = Rs. 400 CP = Rs. 400

71. (b) According to question,

100 (CP) 20% loss 25 % profit 120 (SP) 125 (SP) Diff. 5 (Increase)

5 units \rightarrow 35 1 unit \rightarrow 7

100 units \rightarrow 7 × 100 = Rs. 700

CP = Rs. 700

(b) According to question,

100 (CP) 20% gain 120 (SP)

If he sell double the price means SP = 120×2 =

Profit% = $\frac{140}{100} \times 100 = 140\%$

73. (c) According to question

100(CP) 10% loss 90 (SP) ×500 → 45000 (Given)

90 units → 45000

1 unit \rightarrow 500

 $100 \text{ unit} = 500 \times 100 = 50000$

CP = Rs. 50000

To gain $15\% = 15/100 \times 50000 = Rs. 7500$

Thus, SP = 50000 + 7500 = Rs. 57500

74. (a) According to question,

100 (CP) 10% profit 110 (SP) 990 (given)

110 units \rightarrow 990,

1 unit \rightarrow 9

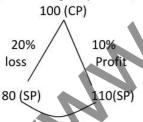
 $100 \text{ units} \rightarrow 9 \times 100 = 900$

CP = Rs. 900

Now, SP = Rs. 890

Thus, CP - SP = 900 - 800 = Rs. 10 loss

75. (b) According to question,



12 30 units

100 units $\rightarrow \frac{12}{30} \times 100 = \text{Rs. } 40$

CP = Rs. 40

76. (c) According to question,

100 (CP) 11% loss 89 (SP) 178(Given)

89 units → 178

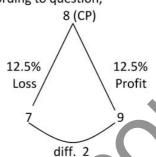
1 unit \rightarrow 2

 $100 \text{ units} \rightarrow 2 \times 100 = 200$

CP → Rs. 200

to earn 11% profit SP = 200 + 11/100× 200 = 200 + 22 = Rs. 222

(c) Let the CP = 8 units 77. According to question,



2 units \rightarrow 13

1 unit →

8 units $\rightarrow \frac{\bar{1}3}{2}$ \times 8 = Rs. 52

(b) Let CP of the article = Rs. x78.

According to question,

$$\frac{x-50}{x} \times 100 = \frac{70-x}{x} \times 100$$

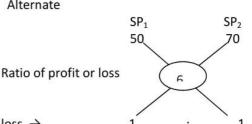
x = 60

Thus, CP = Rs. 60

SP = 50

Loss $\% \frac{10}{60} \times 100 = \frac{100}{6} = 16\frac{2}{3}\%$

Alternate



loss →

If CP = Rs. 60

Loss% = $\frac{10}{60} \times 100 = 16\frac{2}{3}\%$

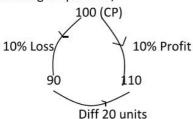
79. Let CP of article is 100 units

According to question,

100 (CP) 5% gain 5 % loss 105 (CP) 95 (SP) Diff 10

10 units
$$\rightarrow$$
 5
1 unit $\rightarrow \frac{5}{10}$
100 units $\rightarrow \frac{5}{10} \times 100 = 50$

(a) Let CP of the article = 100 units 80. According to question,

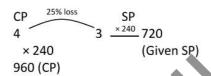


20 units → Rs. 10 1 unit $\rightarrow \frac{1}{2}$

100 units $\Rightarrow \frac{1}{2} \times 100 = 50$

Thus, CP of the article is = Rs. 50

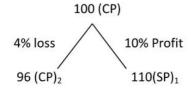
81. (a) According to question,



Now to gain 25% × 240 SP

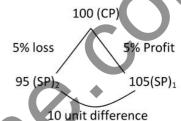
Thus, SP = Rs. 1200

(c) Let CP of the book = 100 units 82.



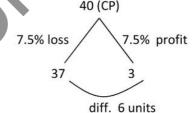
4 unit difference 18 3/4% 14 (SP)₂ Profit 4 units = 6 $1 = \frac{6}{4}$ 100 units = $\frac{6}{4} \times 100 = 150$ $[18\frac{3}{4}\% = \frac{3}{16} = 96 + \frac{3}{16} \times 96]$ (d) Let CP of the Typewriter = 100 unit

83. According to question,



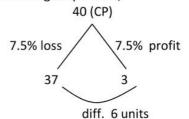
CP of the Typewriter = Rs. 800

(b) Let CP of the article = 40 units According to question,



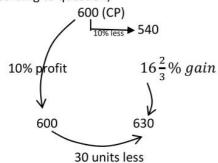
6 units \rightarrow Rs. 3 1 unit $\Rightarrow \frac{3}{6} \times 1 = \frac{1}{2}$ 40 units $\Rightarrow \frac{1}{2} \times 40 = 20$ $CP \rightarrow \frac{1}{2} \times 40 = 20$ CP = Rs. 20

85. (d) Let CP of the article = Rs. 100 According to question,



100(CP) 5 % loss 700 (CP) 12 % profit 95 (SP)

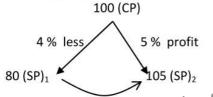
Let CP of the commodity = 600 unit 86. According to question,



30 units \rightarrow Rs. 20

1 unit \rightarrow Rs. $\frac{2}{30}$ 600 units $\Rightarrow \frac{2}{30} \times 600 = 40$

87. (d) Let CP of the article is = 100 units According to question,



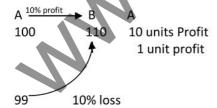
25 difference

25 units → Rs. 50

1 unit
$$\rightarrow \frac{50}{25}$$

100 units
$$\rightarrow \frac{50}{25} \times 100 = 200$$

(c) According to question, 88.



A Total profit → 11 units

A total profit %
$$\rightarrow \frac{11}{100} \times 100 = 11\%$$

89. (c) Let SP = Rs. xAccording to question,

$$\frac{CP - x}{CP} \times 100 = \frac{2x - CP}{CP} \times 100$$

$$CP - x = 2x - CP$$

$$x = \frac{2}{3} CP$$

$$SP = \frac{2}{3} CP$$

$$SP = \frac{2}{3} > 1 \text{ units loss}$$

$$loss\% = \frac{1}{3} \times 100 = 33\frac{1}{3}\%$$

100 diff. 100 200

15 50

(Loss) (Profit)

CP → 150

Loss \rightarrow 50

 $loss\% \to \frac{50}{150} \times 100 = 33\frac{1}{3} \%$

90. (a) Let CP of the article = Rs. 100

According to question,

100 (CP) 10% profit 110 (SP)

Now CP becomes = 110

110 (CP) 10% loss

Thus, Loss = CP - SP

Loss% =
$$\frac{1}{100} \times 100 = 1\%$$

Alternative:

According to question,

$$= a - b - \frac{ab}{100}$$

$$= 10 - 10 - \frac{10 \times 10}{100}$$

= - 1% [(-) sign shows loss]

(a) Let the CP of the basket = 10 unit

According to question

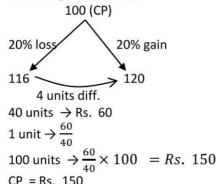
1 unit → 1.5

10 unit → 1.5×10

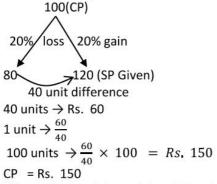
CP → Rs. 15

 $S.P = 15 \times \frac{140}{100} = 21$

92. (c) Let the CP of the cooker = 100 unit According to question,



(d) Let the CP of the article = 100 unit 93. According the question,



94. (d) Let the CP of the article = 100 unit According the question

$$\begin{array}{c}
100 \text{ (CP)} \\
30\% \text{ loss}
\end{array}$$

$$\begin{array}{c}
1000 \text{ (Actual CP)} \\
30\% \text{ Profit} \\
[1300]
\end{array}$$

$$70 \xrightarrow{\times 10} 700 \text{ (SP Given)}$$

$$70 \text{ units} = 700 \\
1 \text{ unit} \Rightarrow \frac{700}{70} \times 100 = 10 \\
100 \text{ units} = 10 \times 100 = 1000 \\
\text{CP = Rs. } 1000 \\
\text{to gain } 30\% \\
\text{SP = } 1000 + \frac{30}{100} \times 1000 \\
= 1000 + 300 \\
= 1300 \text{ Ans.}$$
(d) According to question.

95. (d) According to question, CP of the bed sheet = Rs. 450 Profit = 10% and SP = $\frac{1 \rightarrow Profit}{10 \rightarrow SP}$ Thus, CP = SP - ProfitCP = 10 - 1 = 9 units9 units \rightarrow 450

1 unit
$$\frac{450}{9} = 50$$

10 units $\rightarrow 50 \times 10 = 500$
Thus, SP = Rs. 500

96. (c) Let the CP of the Article is = Rs. 100 According to question,

100(CP)
$$\frac{100\% \text{ Profit}}{200\% \text{ Profit}}$$
 300 (SP)
Ratio of $\frac{CP}{SP} = \frac{100}{300} = \frac{1}{3}$

97. (c) Let CP of the Article = Rs. 100 According to question,

100(CP)
$$\frac{S}{S}$$
 Profit 105 (SP)
Ratio of $\frac{SP}{CP} = \frac{105}{100} = \frac{21}{20}$
(b) Let CP of bicycle is 2100 units

98. According to question,

6 units = Rs. 75

1 unit = 75/6

100 units = $75/6 \times 100$ = Rs. 1250

Thus, CP of bicycle = $\frac{75}{6} \times 100 = 1250$

(b) S.P. of cycle = Rs. 2850 Profit % = 14%

Profit % = 14%

C.P. =
$$\frac{S.P.}{100+P\%}$$

CP = $\frac{2850}{114} \times 100$

New Profit = 8%

New Profit = 8%

New S.P. = C.P.
$$\times \frac{100+P\%}{100}$$

= $\frac{2850\times100}{114} \times \frac{108}{100} = Rs. 2700$

100. (a) Let CP of the article is = 100 units

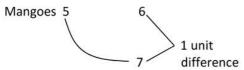
According to question, 100 (CP) 4% loss → 9(SP)

96 units → Rs. 960

1 unit $\Rightarrow \frac{960}{96}$ 100 units $\Rightarrow \frac{960}{96} \times 100 = 1000$

101. (a) According to question,

CP



1 Unit = 1 Rs.

Thus, SP of the mangoes in first case = Rs. 6

102. (b) Let CP of Hand Cart= 100 According to question,

100 (CP) 25% loss 75 (SP)
$$\times \frac{48}{5}$$

720 (Given)

75 units = 720

1 unit =
$$\frac{720}{75}$$
 $\rightarrow \frac{48}{5}$

100 units
$$\Rightarrow \frac{48}{5} \times 100 = 960$$

CP = Rs. 960

to gain% SP is = CP + Profit % × CP

$$=960+\frac{25}{100}\times60$$

$$= 960 + 240 = Rs. 1200$$

103. (b) According to question, Cheats while buying = 10%

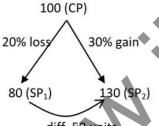
Cheats while selling = 10%

Thus,
$$\left(a + b + \frac{ab}{100}\right)\%$$

= $10 + 10 + \frac{10 \times 10}{100} = 20 + 1$

Increase in profit % = 21%

104. (a) Let C.P. of the book = 100 According to question,



diff. 50 units

50 units \rightarrow Rs. 108

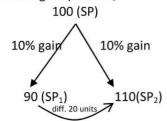
1 unit
$$\rightarrow \frac{108}{50}$$

1 unit
$$\rightarrow \frac{108}{50}$$

100 units = $\frac{108}{50} \times 100d = Rs$. 216

Thus, CP = Rs. 216

105. (b) Let CP of the book = 100 According to question,



50 units = Rs. 108
1 unit = Rs.
$$\frac{108}{20}$$

100 units = $\frac{108}{20} \times 100 = Rs$. 540

CP = Rs. 540

106. (b) According to question,

Radio
$$-1$$
 Radio -2
CP $5 \times 14 = 70$ + $15 \times 6 = 90$ = 160
20% profit $6\frac{2}{3}\%$ loss
SP $6 \times 14 = 84$ + $14 \times 6 = 84$ = 168

to make SP same

160 units = 1920

1 unit =
$$\frac{1920}{160}$$
 = 12

70 units = 12×70 =

90 units = $12 \times 90 = 1080$

CP of both Radio = Rs. 840, Rs. 1080

107. Let CP of Article = 100

According to question, 100

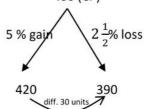
36 units = 162

1 unit =
$$\frac{162}{36}$$

100 units =
$$\frac{162}{36} \times 100$$
 = Rs. 450

108. (b) Let CP of the article = 400 According to question,

400 (CP)

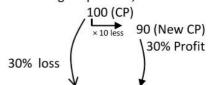


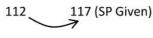
30 units = 12

1 unit =
$$\frac{12}{30}$$

400 units
$$=\frac{12}{30} \times 400 = 160$$

109. (c) Let the CP of the article = Rs. 100 According to question,





Diff. 5 units

5 units = 5.75

1 units = $5.75/5 \times 100$

100 units = $5.75/5 \times 100 = 115$

Thus, CP of the article = Rs. 115

to gain 20%

Thus, SP of the article = $115 + \frac{20}{100} \times 115$

SP = Rs. 138 Ans.

110. (a) Let CP of the table is = 100 unit

According to question,

100 (CP) 5 % loss 95 (SP)

95 units = 1140

1 unit =
$$\frac{1140}{95} = 12$$

100 units = $12 \times 100 = 1200$

SP of the table to gain 5% profit = $1200 + \frac{5}{100} \times$

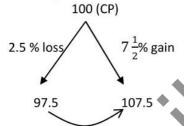
1200

$$= 1200 + 60$$

= Rs. 1260

111. (b) Let CP of the radio = 100 unit

According to question,



10 unit more

1 unit =
$$\frac{100}{10} = 10$$

 $100 \text{ units} = 100 \times 10 = 1000$

CP of the radio = Rs. 1000

to gain 12.5% SP of the radio

$$= 1000 + \frac{12.5}{100} \times 100$$

Rs. 1125

112. (d) Let CP of the selling fan = 100 unit According to question,

According to question,

100 (CP) 10 % loss ► 90 (SP)

90 units = 600

1 unit =
$$\frac{600}{90} = \frac{20}{3}$$

100 units = $\frac{20}{3} \times 100 = 2000/3$

to gain 20% SP of fan

$$= \frac{200}{3} + \frac{20}{100} \times \frac{2000}{3}$$

= Rs. 800

113. (c) Let the CP of the article = 100

According to question,

85 units = 170

1 unit = 170/85 = 2

 $100 \text{ units} = 2 \times 100 = 200$

CP of the article = Rs. 200

In order to gain 20% SP of the article = 200 ×

120/100 = 240

New Selling Price = Rs. 240

114. (c) Let CP of the article = 100 unit

According to question,

100 (CP) 20% gain

115 (SP₁)

120 (SP₂)

10 unit more

units = 27

1 unit =
$$\frac{27}{5}$$

100 units =
$$\frac{27}{5} \times 100 = 540$$

CP of the article = Rs. 540 Ans.

115. (c) Let CP of the article = 100 According to question,

100 (CP₁)
15 % profit
10% loss
115 (SP₁)
112.5 (SP₂)

2.5 units more

2.5 units = 4

1 unit = 4/2.5

100 units = $4/2.5 \times 100$ = Rs. 160

CP of the article = Rs. 160

116. (a) Let CP of the article = 100 According to the question

100 (CP) 15 % loss 5% gain 90 (SP₁) 105 (SP₂) 15 units more

15 units = 90

1 unit = 90/15

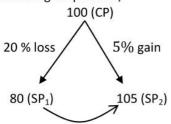
100 units = $90/15 \times 100 = 600$

Thus, CP of the article = Rs. 600

90 units =
$$\frac{90}{15} \times 90 = 540$$

Thus, Original SP = Rs. 540

117. (b) Let CP of the article = 100 According to question,



25 units more

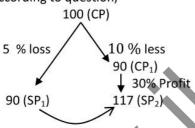
25 units = 200

1 unit =
$$\frac{200}{25}$$

100 units =
$$\frac{200}{25} \times 100 = 800$$

CP of the article = Rs. 800

118. Let CP of the article = 100 According to question,



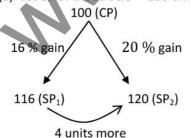
22 units more

$$1 \text{ unit } = \frac{3}{2}$$

100 units =
$$\frac{3}{2} \times 100 = 150$$

Thus, CP = 150

119. (a) Let CP of the Article = 100 units



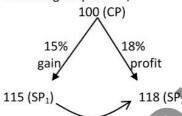
4 units = 200

$$1 \text{ unit } = \frac{200}{4}$$

100 units =
$$\frac{200}{4} \times 100 = 5000$$

CP = Rs. 5000

120. (c) Let CP of the article = Rs. 100 According to question,



3 units increase

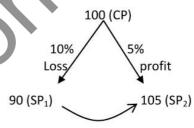
3 units = 18

1 unit =
$$\frac{18}{3}$$

100 units = $18/3 \times 100 = 600$

Thus, CP of the article = Rs. 600

121. (a) Let CP of the article = 100 According to question,



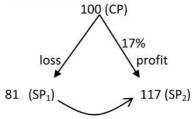
15 units

1 unit =
$$\frac{45}{15}$$

100 units =
$$\frac{45}{15} \times 100 = 300$$

CP of the article = Rs. 300

122. (b) Let CP of the article = 100 According to question



36 units increase

www.ikchrome.com

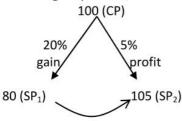
36 units = 162

1 unit =
$$\frac{162}{36}$$

100 units = $\frac{162}{36} \times 100 = 450$

CP of the article = 450

123. (c) CP of the article = 100 According to question,

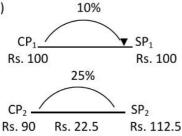


25 units increase

25 units = 100
1 unit =
$$\frac{100}{25}$$

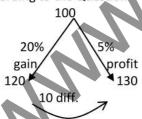
100 units = $\frac{100}{25} \times 100 = 400$
CP = Rs. 400 Ans.





Thus, 2.5 units = 601 unit = 60/2.5 = 24Therefore, C.P. of bicycle = 100 units = 100×24 = Rs. 2400

125. (a) Let the C.P. of the ratio According to the Question

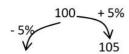


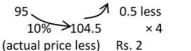
10 unit = 601 unit = 6

100 units \rightarrow 6 × 100 = 600

Thus, Cost price of the radio = Rs. 600

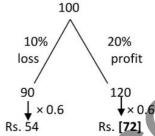
126. (b) Let CP = 100



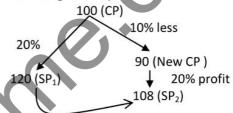


C.P. of the article = 100×4 = Rs. 400

127. (a)

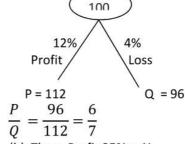


128. (b) Let CP of the watch = 100 According to the question,



diff. = 12 units





130. (b) Thus, Profit 25% = 1/4 Let CP = 4, Profit = 1

SP = 4 + 1 = 5

If selling price is doubled

New SP

$$= 5 \times 2 = 10$$

$$\rightarrow$$
 CP = 4, SP = 10

$$\rightarrow$$
 Profit = 10 – 4 = 6 units

 \rightarrow Profit % will be = 6/4 × 100

= 150%

131. (d) CP = Rs. 1500

Profit after selling = 25% of 1500 = Rs. 375

Net Profit = Rs. 375 - 75 = 300Net Profit % = $\frac{300}{1500} \times 100 = 20\%$

132. (d) (at 25% loss) SP = 960 CP = 720 × $\frac{100}{75}$ = 960

$$CP = 720 \times \frac{100}{75} = 960$$

133. (a) For gaining 20% it should be sell for $= 450/80\% \times 120\% = Rs. 675$

Increase by 25%

25% = 200
1% = 200/25
CP = 100% =
$$\frac{200}{25} \times 100$$

= Rs. 800

135. (b) S.P. of goods = Rs. 31 C.P. of goods = $31 \times \frac{100}{93}$

= Rs. =
$$\frac{100}{3}$$

Profit % = $\frac{13 - \frac{100}{3}}{\frac{100}{3}} \times 100$

$$= \frac{\frac{5}{3}}{\frac{100}{3}} \times 100 = 5\%$$

136. (d) According to question, Let CP of the article is = Rs. 100 MP is 10% high of CP mean = Rs. 110 Discount always given on Marked Price 10% discount of MP means

$$= \frac{10}{100} \times 110 = Rs. 11$$
Thus, SP = MP - Discount
SP = 110 - 11 = Rs. 99
Thus%, $\frac{CP - SP}{CP} \times 100$

$$= \frac{100 - 99}{100} \times 100 = 1/100 \times 100 = 1\%$$

137. (c) According to question

$$\frac{CP}{SP} = \frac{100}{120}$$
 20% profit

$$\frac{MP}{SP} = \frac{100}{90}$$

$$\frac{CP}{SP} = \frac{100}{120} = \frac{5}{6}, \frac{MP}{SP} = \frac{100}{90} = \frac{10}{9}$$

$$\frac{CP}{SP} = \frac{5}{6}, \frac{MP}{SP} = \frac{10}{9}$$
Thus CP SP MP
$$45 \quad 54 \quad 60$$
9 units
profit
9 units $\Rightarrow 7500$
1 unit $\Rightarrow \frac{7500}{9}$
60 units $\Rightarrow \frac{7500}{9} \times 60 = 50000$

MP = Rs. 50000

138. (d) According to question,

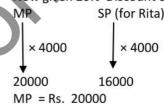
(100 - Discount): (100 + Profit) 100 - 10: 100 + 12 90 112 45 56 Ans.

139. (d) According to question

Raised = $\frac{34}{85} \times 100 = 40\%$

140. (b) According to question, Rita SP of TV = 16800 Profit = 800 CP = SP - Profit 16800 - 800 = Rs. 16000

Now given 20% Discount on the labeled price.



141. (d) In this type of question go through option

SP = Rs. 39Option (d) CP = Rs. 30Profit % = 30% $SP = 30 + \frac{30}{100} \times 30 = 30 + 9$ SP = 39 (Satisfied)

142. (a) According to question,

(100 - Discount): (100 + Profit %) : 100 - 10100 + 12.590 units 112.5 units 1 unit = 800/90112.5 units = $\frac{800}{90} \times \frac{1125}{10} = 1000$ Thus, MP=Rs. 1000 Ans.

143. (d) According to question, 23% Discount 10% discount to make SP same

Thus, CP MP 770 847 1100

77 units \rightarrow 56 1 unit $\rightarrow \frac{56}{77} = \frac{8}{11}$ 1100 units $\rightarrow \frac{8}{11} \times 1100 = 800$ MP = Rs. 800

144. (b) According to question.

Marked Price = Rs. 300

As we know that,

Marked Price is 50% above the CP

Thus, Cost Price = Rs. 200

Option: - (b)

Original Selling Price = Rs. 250

Profit = SP - CP

= 250 - 200 = Rs. 50

Now SP increase 20%

New SP = Rs. 300

Profit = 300 - 200 = Rs. 100

New Profit become double Rs. 50 to Rs. 100

145. (c) 20% = $\frac{1}{5}$ (1 $\rightarrow Dis., 5 \rightarrow MP$)

M.P. S.P.

5 4 (After discount)

5 → 150

 $1 \rightarrow 30$

S.P. $4 \times 30 = \text{Rs.} 120$

146. (d) According to question,

$$\frac{CP}{MP} = \frac{5}{6} \quad 20\% \text{ above}$$

 $\frac{CP}{SP} = \frac{25}{27}$ 8% profit

to make CP same

CP SP MP 125 135 150

10% discount

147. (d) Let CP 100

MP = 120% of CP

Profit= 8%

SP = 108

So discount is = 120 - 108 = 12

 $=\frac{12}{120} \times 100 = 10\%$

148. (a) Account to question,

CP MP

(100 - Discount) (100+ Profit%)

(100 - 12)

(100 + 132)

88 132

44 units hike

Hike% = $\frac{44}{88} \times 100 = 50\%$

149. (a) According to question,

(a) According to question, CP : MP (100 – Discount%) (100 + Profit %) (100 - 12) (100 + 10) 88 110 $\times \frac{1915}{22}$

Rs.7660 (Given CP): [9575 (given MP)]

150. (a) According to question,

CP of 2000 books are = Rs. 70000

CP of 1 book is $=\frac{70000}{2000} = Rs. 35$

Marked price = of book = Rs. 75

Discount = 30%

Selling price of book = Rs. 52.5

Discount = $=\frac{22.5}{75} \times 100 = 30\%$

He distributed 400 books free

Thus, SP of 1600 books = 52.5×1600

=Rs. 84000

Profit = SP - CP = 84000 - 70000 = Rs. 14000

Profit% = $\frac{14000}{70000} \times 100 = 20\% \ gain$

151. (d) Let the Marked price = 100 unit

According to question,

100 (MP) → 30% discount → 70 (SP)

——→ CP of retailer

CP sold at MP = 100

Profit = MP - CP = 100 - 70

= 30 units profit

Profit % = $\frac{30}{70} \times 100$

 $=42\frac{6}{7}\%$

152. (c) According to question,

$$\frac{CP}{MP} = \frac{100}{125}$$

$$\frac{MP}{SP} = \frac{125}{105}$$

$$\frac{16 \% \ discount}{MP}$$

$$\frac{100}{105}$$

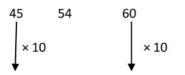
$$\frac{105}{125}$$

5 % profit Ans.

153. (d) According to question,

$$\frac{MP}{SP} = \frac{10}{9} \quad 10\% \quad discount$$

$$\frac{CP}{SP} = \frac{5}{6} \quad 20\% \quad discount$$
to make SP same
$$CP \quad SP \quad MP$$



450 (Actual CP) 600 (Marked Price)

Thus, MP = Rs. 600

154. (b) According to question,

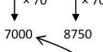
$$\frac{MP}{SP} = \frac{100}{80}$$
 20% discount 80 units = 64
$$1 \text{ unit} = \frac{64}{80}$$

100 units
$$=\frac{64}{80} \times 100 = 80$$

Thus, Original Price = Rs. 80

155. (d) Let CP of article = 100

Profit% = 25%
$$\frac{CP}{SP} = \frac{100}{125} 25\% \ profit$$
CP SP
$$100 125 \times 70 \times 70$$



$$\frac{CP}{MP} = \frac{70}{100} \quad 30 \% Profit$$
C.P. M.P.
$$\begin{array}{c} 70 & 100 \\ \times 100 & \times 100 \\ \hline 7000 & [10000] \end{array}$$

156. (a) According to question,

(100 - Discount): (100 + Profit) (100 + 12)(100 - 10)90

157. (c)

According to question,

8% loss Ans..

158. (d) According to question,

$$\frac{CP}{MP} = \frac{5}{6} \qquad 20 \% \ above$$

$$\frac{CP}{SP} = \frac{25}{27} \quad 8 \% \ gain$$
to make CP same
$$CP \qquad SP \qquad MP$$



159. (d) Let MP of the Saree = 100

According to question, 100 (MP) 5% discount 95 (SP)

95 units = 266

1 unit = 266/95

100 units $\frac{266}{95} \times 100 = 280$

Thus, MP = 280

Now he sold at the MP they have Profit 12% on

Let CP of the saree = 100 100 (CP) - 12% profit 112 (SP)

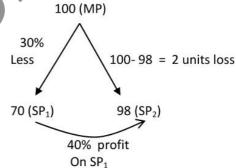
112 units = 280

1 unit = $\frac{280}{1}$

 $\times 100 = 250$

Thus, CP of the saree = Rs. 250

160. (a) Let the marked Price = 100 According to question,



Loss% =
$$\frac{2}{100} \times 100 = 2\%$$

161. (c) Let MP of the article = 100 According to question,

MP100

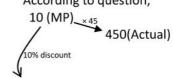
$$\frac{MP}{SP} = \frac{100}{90} \qquad 10\% \ discount$$

$$\frac{CP}{SP} = \frac{100}{117} \qquad 17\% \ profit$$

to make SP Same

Profit% = 2700/9000 × 100 = 30%

162. (c) Let Marked price = Rs. 10 According to question,



9 <u>× 45</u> Rs. (405) Ans.

$$\frac{MP}{SP} = \frac{13}{10} \quad 30\% \text{ more}$$

$$\frac{MP}{SP} = \frac{16}{15} \quad 6\frac{1}{4}\% \text{ discount}$$

to make MP same

35 unit profit

Profit% =
$$\frac{35}{160} \times 100 = 21\frac{7}{8}\%$$
164. (b) According to question,

$$\frac{CP}{SP} = \frac{50}{60}$$
 20% profit
Now they given 15% discount on SP₁

Thus
$$SP_2/SP_1 = \frac{51}{60}$$
 15% discount
Profit = SP_2 - CP

$$=51-50=1$$

Profit% =
$$\frac{1}{50} \times 100 = 2\%$$

165. (d) According to question,

$$\frac{CP}{MP} = \frac{10}{13}$$
 30 % Raised
$$\frac{MP}{SP} = \frac{25}{23}$$
 8% discount

to make MP same

419 unit profit

Profit % =
$$\frac{49}{250} \times 100 = 19.65$$
 Ans.

166. (d) Given, M.P. = Rs. 975

⇒ Selling Price = 8979
⇒ Discount = MP - SP
⇒ Discount = 975 - 897 = 78
⇒ Then discount =
$$\frac{Discount}{Mark\ price}$$
 × 100

 $\frac{78}{975} \times 100 \rightarrow Discount\% = 8\%$

167. (c) According to first condition total discount

$$= a + b - \frac{ab}{100}$$

$$= 40 + 30 - \frac{40 \times 30}{100} = 70 - 12$$

In first condition total discount = 58% (i)

In second condition total discount

$$= 45\% + 20\% - \frac{45 \times 20}{100}$$

→ Total discount = 56%

→ According to question,

$$\rightarrow$$
 58% - 56% = Rs. 2

$$\Rightarrow$$
 2% = 12 ×1% = 6

Thus, Mark price will be = Rs. 600



168. (c) Single discount % will be

$$10\% = -\frac{1}{10} \rightarrow$$
MP
Discount
SP
$$10\% = \frac{1}{10} \rightarrow 10$$

$$20\% = \frac{1}{5} \rightarrow 5$$

$$25\% = \frac{1}{4} \rightarrow \frac{4}{50}$$

$$23 \text{ Discount}$$

Discount % =
$$\frac{Discount}{MRP} \times 100$$

$$=\frac{23}{50} \times 100\% = 46\%$$

Alternative: From first two successive discounts using 10% and 20%

→ Equal single discount

=
$$(a + b - \frac{ab}{100})\%$$

 $\left(10 + 20 - \frac{10 \times 20}{100}\right)\% = 30 - 2$
= 28%

Using 28% and last successive discount of 25%

→ Equal single discount

=
$$(a + b - \frac{ab}{100})\%$$

= $10 + 20 - \frac{10 \times 20}{100} = 30 - 2$
= 28%

→ Using 28% and last successive c

 \rightarrow Eqal single discount

$$= \{a + b - \frac{ab}{100}\}\%$$

$$= \left(25 + 28 - \frac{25 \times 28}{100}\right)\%$$

Final equal discount = 46%

169. (d) According to the question,

Second discount 20%

Cost Price Rs. 72

Transportation charge 10%

Actual cost price Rs. 79.2 Profit % 15% +11.88

Therefore, S.P. will be = Rs. 91.08



CP	SP	MRP
600	720	800

$$\rightarrow$$
 MRP \times 90% = 720

$$\rightarrow \mathsf{MRP} \times \frac{9}{10} = 720$$

171. (d) Equivalent discount

$$= (a + b - \left(\frac{ab}{100}\right))\%$$

$$= (10 + 20 - \frac{10 \times 20}{100})\% = (30 - 2)\%$$

$$= 28\%$$

172. (c) MRP → Rs. 720 First Discount - 10%

> If discount → 97.2)

⇒ Discount% =
$$\frac{97.2}{648} \times 100 = 15\%$$

173. (c) Total discount 9

$$=\left(20+15-\frac{20\times15}{100}\right)\%$$

$$\rightarrow$$
 35 - 3 = 32%

Discount

68 units → 3060

$$\rightarrow$$
 1 unit \rightarrow 45
 \rightarrow Then MRP = 100 unit = 45 × 100 = Rs.
4500

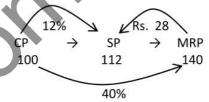
174. (c) Given

- → MRP of book = Rs. 100
- \rightarrow SP of 1 book = Rs. 274.50
- \rightarrow SP of 1 book = Rs. 91.50
- → Discount on each book = 100 91.50
- \rightarrow Discount on each book = 100 91.50

→Therefore discount %

$$= 8.5/100 \times 1005 = 8.5\%$$

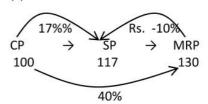




According to figure

$$\rightarrow$$
 Discount% = $\frac{Discount}{MRP} \times 100\%$

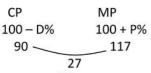
- \rightarrow Discount% \rightarrow 28//140 × 100%
- → Discount% → 20%
- 176. (c)



Let CP of article = Rs. 100

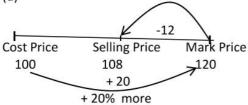
- \rightarrow then SP = Rs. 117
- → MRP × 90% = 117
- \rightarrow MRP $\times \frac{9}{10} = 117$
- \rightarrow MRP = Rs. 130
- → If there is no discount then SP
- = MRP
- \rightarrow So SP = 130
- \rightarrow Profit \rightarrow 130 100
- \rightarrow Profit \rightarrow Rs. 30
- \rightarrow Profit% = 30/100 × 100% = 30%

Alternate:



Profit % = $\frac{27}{90} \times 100 = 30\%$

177. (d)



108 units = 216

1 unit = 2

 $CP = 100 \text{ units} = 100 \times 2 = Rs. 200$

178. (d) According to the question,

$$\frac{Cost \, Price}{Mark \, Price} = \frac{5}{9}, \quad \frac{Cost \, Price}{Selling \, price}$$
$$= \frac{5}{6} \quad 205 \, profit$$

Cost Price Selling Price Mark Price

3 unit discount

Discount% =
$$\frac{3}{9} \times 100 = 33\frac{1}{3}\%$$

179. (b) Let CP = 100 x

Discount = 20%

 $SP = 100x - 20\% \text{ of } CP \rightarrow 80x$

 $80 x \rightarrow Rs. 300$

100x →

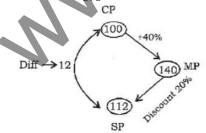
Actual CP = Rs. 375

New SP = Rs. 405

Profit = Rs. 30

Gain percent = $\frac{30}{375}$ $100 \times 100 = 8\% \ Ans.$

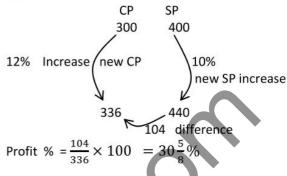
180.



Let CP be 100 12 units \rightarrow Rs. 48 1 unit \rightarrow Rs. 4 100 units \rightarrow 4 ×100

$$= Rs. 400$$

181. (b)



182. (d) % of profit =
$$25 - 10 - \frac{25 \times 10}{100} = 12.5\%$$

$$P = \frac{1}{8} \times 100 = 12.5\%$$

183. (a) Successive Discount

$$= 20 \% + 10\% - \frac{20 \times 10}{100}\% = 28\%$$

184. (a) Let MP = 100

SP = 80 (-20% discount)

80 units = 1200

1 unit = 1200/80

100 units =
$$\frac{1200}{80} \times 100 = 1500$$

= Rs. 1500

185. (b) Let CP be 100

CP + 30% MP - 10% SP
100
$$\rightarrow$$
 130 \rightarrow 117

Discount 17 (Profit)

Profit % =
$$\frac{17}{100} \times 100 = 17\%$$

186. (d) MP

 $Discount \rightarrow \frac{25}{250} \times 100 = 10\%$

187. (c) According to the question,

$$\frac{MP}{SP} = \frac{50}{40}$$
If S.P. = 40

to gain 40% New S.P. = $40 \times 140/100$ = Rs. 56 % profit on the marked price $=\frac{6}{50} \times 100 =$ 12%

188. (c) Discount = x%

$$\rightarrow$$
 SP = Rs. y

$$\rightarrow$$
 MRP = ?

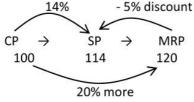
$$\rightarrow$$
 MRP \times (100 - x)% = y

$$\rightarrow MRP = \frac{y}{(100-x) \times \frac{1}{100}}$$

$$\rightarrow MRP = Rs. \frac{100y}{(100-x)}$$

$$\rightarrow$$
 MRP = Rs. $\frac{100y}{(100-x)}$

189. (c) Let the CP = Rs. 100



→ According to figures

Profit% = 14%

190. (a) Marked Price = x

MP
$$\times \frac{100-D\%}{100} = SP$$

 $\times \times \frac{100-15}{100} = 255$
 $\times \times \frac{85}{100} = 255$

$$x = 300$$

191. (a) SP = $300 \times \frac{100-15\%}{100} \times \frac{100-10}{100}$ = $300 \times \frac{85}{100} \times \frac{90}{100} = 229.50$

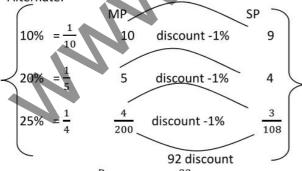
192. (a) Successive Discount of 10% and 20%

$$= 10 + 20 - \frac{10 \times 20}{100} = 28\%$$

Successive Discount of 28% and 259

$$=28+45-\frac{25\times25}{100}=53-7=46\%$$

Alternate:



Discount% = $\frac{D}{MP} \times 100 = \frac{23}{50} \times 100 =$

46%

193. (d) CP MP 100 - D% 100 + P%



Required $\% = 36 / 90 \times 100 = 40\%$

194. (d) According to question,



Thus, 1 unit = 15

10 units =
$$10 \times 15$$
 = Rs. 150

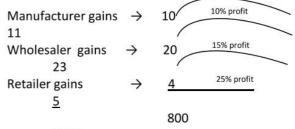
195. (c) According to question,



Thus In whole transaction gain

$$= 105 - 102.9 = 2.1 \text{ units}$$

196. (c) According to question,



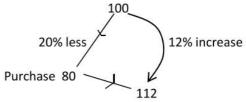
1265

× 1

1265 (Given)

Thus, $800 \times 1 = Rs. 800 (CP)$

197. (c) Let CP of the camera = 100 unit



12 % increase

198. (c) Let car worth be 2000 unit

According to question,



2 % loss → 42 units gain

We know that car worth Rs. 150000

thus, 2000 units \rightarrow 150000

1 unit → 75

42 units \rightarrow 75 × 42 = 3150

In the entire transaction 'X' gain Rs. 3150

199. (c) According to question,

A → Manufacturer

B → Wholesale dealer

C → Shopkeeper

D→ Customer

Thus,

Α	\rightarrow	В	10 _l	11	
109	% pro	fit	×	×	
В	\rightarrow	C	5	6	
209	% pro	fit	x	х	
C	\rightarrow	D	20	<u>17</u>	
15	% Los	SS	1000	1122	
			↓ × 50	↓× 50	
		[[50000]	56100(Given	1)

200. (a) According to question,

				(5)
Α	\rightarrow	В	20	21
109	% pro	fit	×	*
В	\rightarrow	C	10	11
20	% pro	ofit	200	31
			1	
			CP of A	CP of C

231 units = 2310

1 unit =
$$\frac{2310}{231}$$

200 units =
$$\frac{2310}{324} \times 200 = 2000$$

Thus, CP of A = Rs. 2000

201. (a) According to question,

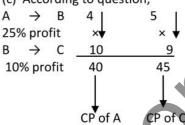
A
$$\rightarrow$$
 B 10 11 10% profit \times \times B \rightarrow C 5 6 20% profit \times CP of A CP of C

66 units = 264

1 unit =
$$\frac{264}{66}$$

50 units = $\frac{264}{66} \times 50 = 200$
CP of A = Rs. 200

202. (c) According to question,



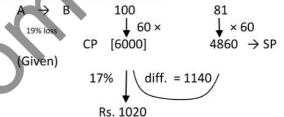
45 units = 675

1 unit =
$$\frac{675}{40}$$

40 units =
$$\frac{675}{45} \times 40 = 600$$

CP of A = Rs. 600

203. (c) According to question



Now B sold to C at price that would given A profit of 17%

Total gain of B = Rs. 1020 + 1140 = Rs. 2160

$$CP ext{ of B} = Rs. ext{ 4860}$$

Gain%
$$=\frac{2160}{4860} \times 100$$

$$=44\frac{4}{9}$$
 %

204. (d) According to Question,

231 units = 462

1 unit =
$$\frac{462}{231}$$
 = 2

200 units = $2 \times 200 = 400$

CP of A = Rs. 400

205. (b) According to question
Shopkeeper sells his goods at Cost price,

Let, CP of 1000 gms good = Rs. 1000

He sold 900 gms good

SP of 900 gms good = Rs. 1000

CP of 900 gms good = Rs. 900

Profit % =
$$\frac{100}{900} \times 100 = 11\frac{1}{9}\%$$

206. (c) According to question,

A shopkeeper fault while buying as well as selling and makes a profit of 5%

Thus,
$$\left(a+b+\frac{(ab)}{100}\right)\% = 5+5+\frac{5\times5}{100}$$

Increase in profit = 10.25% Ans.

207. (d) Let the CP of the car = 100 units

According to question,

(CP) 10% loss 90

(SP₁) 20% profit 108 (SP₂)

108 units = 54000

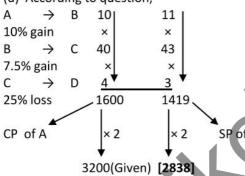
1 unit =
$$\frac{54000}{108} = 500$$

 $100 \text{ units} = 500 \times 100$

= Rs. 50000

CP of the car = Rs. 50000

208. (d) According to question,



209. (c) According to question,

(c) According to question,
$$A \rightarrow B \quad 5 \quad 6$$

$$20\% \text{ gain} \quad \times \quad \times$$

$$B \rightarrow C \quad 10 \quad 11$$

$$10\% \text{ gain} \quad \times \quad \times$$

$$C \rightarrow D \quad 8 \quad 9$$

$$12.5\% \text{ loss} \quad 400 \quad 594$$

$$CP \text{ of } A \quad Pays \text{ by } D$$

594 units = 29.7

1 unit =
$$\frac{29.7}{594}$$

400 units =
$$\frac{29.7}{594} \times 400 = 20$$

CP of A = Rs. 20

210. (c) According to question,

A
$$\rightarrow$$
 B 10 11
10% profit $\psi \times 260 \quad \psi \times 260$
[2600] 2860

211. (d) According to the question,

A B
$$\rightarrow$$
 5 6 \times 20% Profit \times 25% profit 20 18 \leftarrow C.P. C.P. of A

18 units → P

1 unit
$$\rightarrow$$
 P/18

20 units
$$\rightarrow \frac{P}{18} \times 20 = \frac{10P}{9}$$

CP of A = Rs.
$$\frac{10P}{9}$$

212. (b) According to question = 15% Loss,

CP Loss SP
100 15 85

$$\downarrow$$
 ×14 \downarrow × 14
1400 1190 \rightarrow Ans.

(a) According to question 7%, Loss

CP Loss SP

$$100 7 93$$

 $\downarrow \times 7 \downarrow \times 7$
 $700 651$

214. (d) According to question

Two successive discounts of 5%

Equivalent discount

$$= a + b - \frac{ab}{100}$$

$$= 5 + 5 - \frac{5 \times 5}{100} = 10 - 25/100 = \frac{39}{4}\%$$
MP = Rs. 80

Discount = 80 × $\frac{39}{4}$ = Rs. 7.8

Discount =
$$80 \times \frac{39}{4 \times 100}$$
 = Rs. 7.8

SP = MP - Discount = Rs. (80 - 7.8) = Rs. 72.2

215. (a) According to question,

CP SP

I 4 - 5 (25% profit first time)

II 4 - 5

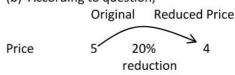
III
$$\frac{4}{}$$
 - $\frac{5}{}$
 $\frac{64}{}$ 125

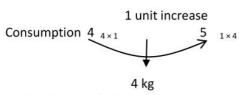
 $\frac{1}{}$ \times 2 $\frac{1}{}$ \times 2

128 250 (Given)

Thus, CP = Rs. 128

216. (b) According to question,



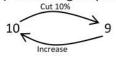


Reduced price of Salt

= Rs.
$$\frac{100}{20}$$
 = Rs. $5/kg$

217. (b) According to question,

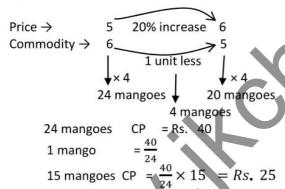
218. (c) According to question,



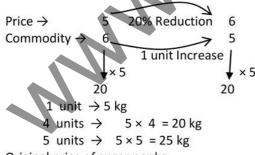
Raised % =
$$\frac{1}{9} \times 100$$

$$=11\frac{1}{9}\%$$

219. (d) According to question,



220. (b) According to question



Original price of sugar per kg.

$$=\frac{600}{20}$$
 = 30 Rs./kg

221. (c) According to question,

gain% = a + b +
$$\frac{ab}{100}$$

= 20 + 30 + $\frac{20 \times 30}{100}$ = 56%

222. (c) According to question,

Total gain =
$$a + b + \frac{ab}{100}$$

= $10 + 10 + \frac{10 \times 10}{100} = 20 + 1$
Gain% = 21%

223. (a) According to question,

Grocer use 20% less weight = 1000 - 200 = 800

The Profit% =
$$\frac{200}{800} \times 100 = 25\%$$

Then total profit = $10 + 25 + \frac{25 \times 100}{100} = 37.59$

224. (b) According to question,

Dishonest deals sold at CP uses a false weigh of 850 gm instead to 1 kg

Thus, Profit % =
$$\frac{150}{850}$$
 × 100 = $17\frac{11}{17}$ % profit

225. (a) According to question,

Goat -1 Goat -2 Total
CP
$$5_{\times 9} = 45 + 25$$
 Rs.
70 20% loss 44% Profit
SP $4_{\times 9} = 36 + 36$

to make SP of both goat same

70 units
$$\Rightarrow$$
 1008
1 unit $\Rightarrow \frac{1008}{70}$
45 units $\Rightarrow \frac{1008}{70} \times 45$
72 × 9 = Rs. 648
CP of goat sold at loss

= Rs. 648

226. (a) According to question, there is no loss or gain in the whole transaction

> 16% profit on watch A CP₁ 12 % loss on watch B CP₂

$$= 0$$

$$\frac{(WatchA)CP1}{WatchB(CP2)} = \frac{12\%}{16\%} = \frac{3}{4}$$

CP1 + CP2 = 3 + 4 = 7 units

7 units → 840 (Given)

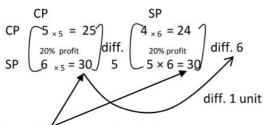
1 unit → 120

Thus, 3 units \rightarrow 120 \times 3 = 360

CP of watch to sold at 16%

= Rs. 360

227. (c) According to question,



to make SP same of both chair 1 unit = Rs. 85 30 units = 30 × 85 = Rs. 2550

228. (b) According to question,

Total

CP \Rightarrow = 195

SP \Rightarrow = 184

Horse = 1Horse = 2 $5_{\times 23} = 115 + 20_{\times 4} = 80$ 15% profit 15% profit $4_{\times 23} = 92 + 23_{\times 4} = 92$

to make SP same Given, 195 units \rightarrow 19500 1 unit $\Rightarrow \frac{19500}{195} = 100$ 115 units \Rightarrow 100 × 115 = 11500 80 units \Rightarrow 80 × 100 = 8000 CP of two Horse are = Rs. 11500, Rs. 8000

229. (c) According to question,

$$SP \rightarrow 5 + 5 = 10$$

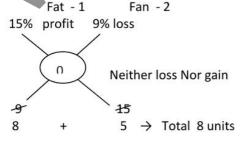
4 +x = 10

Because there is no profit no loss

x = 6Then loss is 6 - 5 = 1

Thus % = $1/6 \times 100 = 16\frac{2}{3}\%$

230. (c) According to question,



8 units = 2160 1 unit = $\frac{2160}{8}$ = 270 Thus: 3 units = 3 × 270 = Rs. 810 5 units = 5 × 270 Rs. 1350 CP = Rs. 810 , Rs. 1350

231. (c) According to question, Articles Price Purchase $11_{\times 10} = 110 \text{ Rs.}$ $10_{\times 10} = 100$

unit gain

Sold $10_{\times 11} = 110$ Rs. $11_{\times 11} = 121$ Thus, to make no. of articles same Thus, 21% gain

232. (a) According to question, Articles Price Purchase $5_{\times 3} = 15$ Rs. $1_{\times 3} = Rs. 3$

> Rs. 2 gain Sold $3_{\times 5} = 15$ Rs. $1_{\times 5} = Rs. 5$ Thus: To make no. of pencil same Gain% $= \frac{2}{3} \times 100 = 66\frac{2}{3}\%$

233. (d) According to question, CP of 100 oranges is = Rs. 350 CP of 1 oranges is= Rs. 350/100 = Rs. 3.5CP of 12 oranges is Rs. $3.5 \times 12 = Rs. 42$ SP of 12 oranges is = 48 Profit = SP - CP = Rs. (48-42) = 6

Profit % = $\frac{6}{48} \times 100 = \frac{100}{7} 14\frac{2}{7}\%$

234. (c) According to question, Orange Price

CP $10_{\times 9}$ Rs. $25_{\times 9}$ = Rs. 225

Rs. 25 SP $9_{\times 10}$ Rs. $25_{\times 10}$ = Rs. 250 Thus, oranges make same Profit% = 25 / 225 × 100 = 100/9% Profit

235. (d)

Articles Prices

CP $6_{\times 5} = 30$ $5_{\times 5} = \text{Rs. } 25$ SP $5_{\times 6} = 30$ $6_{\times 6} = \text{Rs. } 36$

to make articles same

Profit % =
$$\frac{11}{25} \times 100 = 44\%$$

236. (b) According to question,

Price Article
Purchase Rs.
$$1_{\times 36}$$
 $5_{\times 36}$ $4_{\times 45}$ 180

Sold Rs. $2_{\times 30}$ $9_{\times 20}$ LCM of 5,

4,9

to make

same the article

Thus, total no of articles = 360 1 3 = 1080

237. (c) According to question,

Pencil Price

CP
$$6_{\times 4} = 24$$
 $4_{\times 4} = Rs. 16$

20 profit

SP $4_{\times 6} = 24$ $6_{\times 6}$ Rs. 36

to make Pencil same

Profit % =
$$\frac{20}{16} \times 100 = 125\%$$

238. (d) According to question

Toffees Price

CP
$$2_{\times 5} = 10$$
 $1_{\times 5} = 5$

Loss 3

.To make Pencil same

loss% =
$$\frac{3}{5} \times 100 = 60\%$$

239. (a) According to question,

Toffee Price
$$11_{\times 9} = 99$$

$$9_{\times 11} = 99$$

$$10_{\times 11} = 110$$

$$200$$

to make toffee same

Sold at one rupee per to toffee Thus, SP of 198 toffee = Rs. 198

CP of 198 toffee = Rs. 200
Loss% =
$$\frac{2}{200} \times 100 = 1\%$$

240. (b) According to question,

CP
$$20_{\times 15} = 300$$
 $60_{\times 15} = 900$ $30_{\times 10} = 300$ $60_{\times 10} = 600$ Total \rightarrow 600 1500 SP \rightarrow 25 $_{\times 12} = 300$ $60_{\times 12} = 720$ to make oranges is Rs. 1500 SP of 300 oranges is Rs. 720 SP of 600 oranges is Rs. 1440 Loss = CP - SP = 1500 - 1440 = 60

Loss% =
$$\frac{60}{1500} \times 100 = 4\%$$

241. (c) According to question,

CP of 73 articles are = Rs. 5110

CP of 1 article is = $\frac{5110}{73}$ = Rs. 70

SP of 89 articles are = Rs. 5607

SP of 1 articles is = Rs.
$$\frac{5607}{89} = Rs. 63$$

Loss = CP - SP = 70 - 63 = Rs. 7
Loss% = $\frac{7}{10} \times 100 = 10\%$

Loss =
$$CP - SP = 70 - 63 = Rs. 7$$

Loss% =
$$\frac{7}{10} \times 100 = 10\%$$

242. (c) According to question,

Article Price
$$5_{\times 4} = 20 \qquad 1_{\times 4} = 4$$

SP
$$4_{\times 5} = 20$$
 $1_{\times 5} = 5$ to make article same

Profit $\% = \frac{1}{4} \times 100 = 25\%$

243. (c) According to question,

$$5P \rightarrow 5 = 15$$
 $12^{\times 3} = 36$ 11 units

to make article same

11 units \rightarrow 143

1 unit
$$\Rightarrow \frac{143}{11} = 13$$

Thus, 15 units \rightarrow 13 × 15 = 195

the number of eggs he bought is = 195

244. (a) According to question

Oranges Price
$$CP \rightarrow 8_{\times 12} = 96 \qquad 34_{\times 12} = 408$$
units profit
$$SP \rightarrow 12_{\times 8} = 96 \qquad 57_{\times 8} = 456$$

to make oranges same

48 units → 45

1 unit
$$\rightarrow \frac{45}{48} = \frac{15}{16}$$

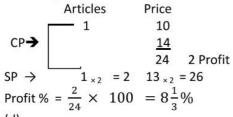
1 unit
$$\Rightarrow \frac{45}{48} = \frac{15}{16}$$

96 units $\Rightarrow \frac{15}{16} \times 96 = 90 \text{ Ans.}$

245. (d) According to question,

Books Price
$$CP \rightarrow 11 \times 10 = 110 \qquad 100 \times 10 = 1000$$
unit profit
$$SP \rightarrow 10 \times 11 = 110 \qquad 110 \times 11 = 1210$$
to make books same
$$Profit\% = \frac{210}{1000} \times 100 = 21\%$$

- 246. (c) According to question, CP of 7 Pens are = Rs. 10 **Gain 40%** SP of 7 Pens are = Rs. 14 SP of 1 Pens are = $\frac{14}{7}$ = 2 Customer gets in 10 Rs. = $\frac{10}{2}$ = 5 pens
- 247. According to question,



248. (d)

Oranges Price

C.P Type 1
$$3_{\times 5} = 15$$
 $40_{\times 5} = 20$

C.P Type 2 $5_{\times 3} = 15$ $60_{\times 3} = 180$

CP)

to make oranges same

Oranges Price
$$SP \rightarrow 3_{\times 10} = 30$$
 $50_{\times 10} = 10$ [500] Gain per cent = $\frac{Profit}{CP} \times 100$ $\rightarrow \frac{500-380}{380} \times 100$ $\rightarrow \frac{120}{380} \times 100 = \frac{600}{19} = 31.57 = 32\%$

249. (d) According to question,

Price
$$5 \rightarrow 6$$
Consumption $6 \rightarrow 5$
Expenditure $30 \quad 30$
% decrease $\frac{1}{6} \times 100 = 16\frac{2}{3}\%$

250. (c) According to question $CP = 30 \times 9.50 + 30 \times 8.5$ $= 30 [9.5 \times 8.5]$ $= 30 \times 18 = Rs. 540$ $SP = 60 \times 8.90$

= Rs. 540

Loss = CP - SP = 540 - 534 = Rs. 6

251. (c) According to question,

Tea - 1 Tea - 2
180 per kg 200 per kg

$$\times$$
 \times $\frac{5}{3}$ Total CP
CP = 900 + 600 = 1500
SP = 210 × (5 + 3)
= 210 × 8 = 1680

Profit = SP - CP =
$$1680 - 1500 = 180$$

Profit = $\frac{Profit}{CP} \times 100$
= $\frac{180}{1500} \times 100 = 12\%$



252. (a) According to question,

CP of Mixture

$$= \frac{80 \times 13.5 + 120 \times 16}{200} = \frac{1080 + 1920}{200}$$

$$= \frac{3000}{200} = 15$$

to gain 20% SP is = $15 \times \frac{20}{200} \times 15$ = 15 + 3 = Rs. 18 per kg

Alternative:

16 - xx - 13.516**-**x

48 - 3x = 2x - 27

5x = 75

x = 15/kg

CP of mixture = Rs. 15 kg. to gain 0% SP = 15 + $\frac{20}{100}$ × 15

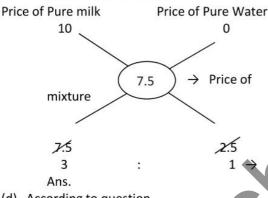
= 15 + 3 = 18 kg

- **253.** (b) Let cost price of 1 kg = Rs. 1 Cost price of 50 kg = Rs. 50 \rightarrow Profit = $\frac{10}{100} \times 50 = Rs. 5$ Thus, Qty to added $=\frac{5}{1} = 5 kg$
- 254. (d) According to question,

CP of 70 liters of milk = Rs. 630 Added 5 liters of water, Now, solution becomes = 75 liters CP of water = Rs. 0 Thus, SP of 1 liter milk = Rs. 9 SP of 75 liters milk = $9 \times 75 = 675$ Rs. Profit = SP - CP = 675 - 630 = 45Profit% = $\frac{45}{630} \times 100 = \frac{50}{7} = 7\frac{1}{7}\%$

255. (a) According to question, SP of mixture of milk and water = Rs. 9 Thus, CP of mixture of milk and water = 261 = $9 \times \frac{100}{120}$ = Rs. 7

Now we use allegation to find the ratio in which water and milk mixed



256. (d) According to question

CP of mixture of Rice

= 15 × 29 + 25 × 20

= 450 + 500 = Rs. 935

SP of 1 kg Mixture of Rice = Rs. 27

SP of 40 kg Mixture of Rice

= 24 × 40 = Rs. 1080

Profit = SP - CP = 1080 - 935 = 1080

257. (c) Let first blend is 2 kg and Second blend is 3 kg

total cost Price = $(35 \times 2) + (40 \times 3)$ = 70 + 120 = 190 Rs.

Total SP = $(1 \times 46) + (4 \times 55) =$

 $\left[\frac{1}{5} \text{ of 5 kg} = 1 \text{kg}\right]$ = Rs. 266

Profit percent = $\frac{Total\ profit}{Total\ CP} \times 100$ $\Rightarrow \frac{266-190}{190} \times 100$ $\Rightarrow \frac{76}{190} \times 100 = 40\%$

258. (d) Ratio will be 25% = $\frac{1}{4}$ Water: Milk = 1:4

259. (c) According to question, Let CP - CP = Loss 17x - 720 = 5x 12x = 720, x = 60 Thus, CP of 1 ball is Rs. 60 260. (a) Let SP of 1 book is Rs. x

SP of 25 books is Rs. 25x
According to question,
SP - CP = Profit
25x - 2000 = 5x
25x - 5x = 2000
20x = 2000
x = Rs. 100

Thus, SP of 1 book is Rs.

261. (a) Let SP of 1 hen = Rs. 1 SP of 144 hens = Rs. 144 Let CP of 1 hen = Rs. x CP of 144 hens = Rs. 144 x According to question CP - SP = loss (SP of 96 hens) According to question, CP - SP = Loss (SP of 96 hens) 144x - 144 = 96 144x = 96 + 144 144x = 240 $x = \frac{240}{144} = \frac{5}{3}$ CP of 1 hen = Rs. $\frac{5}{3}$

CP of 144 hens = $5/3 \times 144$ = Rs. 240 Loss% = $\frac{96}{240} \times 100$ = 40% **262.** (a) Let SP of 1 pencil is Rs. 1

SP of 100 pencils is Rs. 100 CP of 1 pencil is Rs. = 100x According to question, Gain = SP - CP 20 = 100 - 100x 100x = 80 $x = \frac{80}{100} = \frac{4}{5},$ $x = \frac{4}{5}$

 $x = \frac{1}{5}$ CP of 1 pencil = $\frac{4}{5}$

CP of 100 pencils = $\frac{4}{5} \times 100 = Rs$. 80 SP of 100 pencils = Rs. 100 Thus, Gain % = $\frac{20}{80} \times 100 = 25\%$

263. (a) Let the SP of 1 pen = Rs. 1 The SP of 12 pens = Rs. 12 Let the CP of 12 pens = Rs. 12x

According to question, Profit = SP - CPProfit = 12 - 12x4 = 12 - 12x12x = 12 - 412x = 8 $x = \frac{8}{12} = \frac{2}{3}$ $x = \frac{2}{3}$

CP of 12 pens = $12 \times \frac{2}{3} = Rs$. 8

SP of 12 pens = Rs. 12Profit = SP - CP= 12 - 8 = 4

Profit % = $\frac{4}{8} \times 100 = 50\%$

264. (a) Let SP of 1 meter cloth = Rs. 1

SP of 33 meters cloth = 33

 $CP ext{ of 1 meter cloth} = x$

CP of 33 meter cloth = 33x

According to question,

Profit = SP - CP

11x = 33 - 33x

44x = 33

$$x = \frac{33}{44} = \frac{3}{4}$$

CP of 1 meter = Rs. $\frac{3}{4}$

CP of 33 meters = Rs. $\frac{3}{4} \times 33 = Rs$.

SP of 33 meters = Rs. 33

Profit = SP - CP = $33 - \frac{99}{4} = \frac{33}{4}$ Thus, Profit % = $\frac{\frac{33}{4}}{\frac{99}{4}} \times 100 = \frac{33}{4}$ $=\frac{1}{3}\times 100 = 33\frac{1}{3}\%$

265. (c) Let the SP of 1 meter cloth = 1 Rs. The SP of 33 meters cloth = $1 \times 33 = 33$ Rs.

CP of 1 meter cloth = Rs. x

CP of 33 meters cloth = $x \times 33$ = Rs. 33x According to question,

Profit = SP - CP

$$11 = 33 - 33x$$

 $33x = 22$

$$x = \frac{22}{33} = \frac{2}{3}$$

CP of 1 meter cloth = Rs. $\frac{2}{3}$

CP of 33 meters cloth = $\frac{2}{3} \times 33 = Rs$. 22

SP of 33 meters cloth = Rs. 33

Profit = SP - CP

Profit % = $\frac{11}{22} \times 100 = 50\% Ans$.

266. (a) Let SP of 1 meter cloth = Rs.

SP of 25 meters cloth = $25 \times 1 = 25$

CP of 1 meter cloth= Rs.

CP of 25 meter cloth = 25x

According to question,

Gain = SP- CP

= 25 - 25x

$$x = \frac{20}{25} = \frac{4}{5}$$

CP of 1 meter cloth is = Rs. $\frac{4}{5}$

CP of 25 meter cloth = $\frac{4}{5} \times 25 = Rs. 20$

SP of 25 meter cloth = Rs. 25

Gain % = $\frac{5}{20} \times 100 = 25\%$

267. (a) According to question,

CP = Rs. 840

10 % Profit on CP = $\frac{10}{100} \times 840 = Rs. 84$

Thus, SP = 840 + 84 = Rs. 924

New buyer CP = Rs. 924

5% loss on CP = $\frac{5}{100}$ × 924 = Rs. 46.2

SP = Rs. 924 - 46.2 = Rs. 877.80

268. (c) According to question,

$$SP = \frac{2}{3} MP, \frac{SP}{MP} = \frac{2}{3}$$

If there is loss of 10% means $\frac{1}{10}$

$$\frac{CP}{SP} = \frac{10}{9} \quad Loss \ of \ 10\%$$

$$\frac{CP}{SP} = \frac{10}{9}, \frac{SP}{MP} = \frac{2}{3}$$

$$\frac{CP}{SP} = \frac{10}{9}, \frac{SP}{MP} = \frac{2}{3}$$

to make a ratio

CP SP

18 27

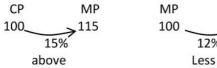
% profit when article is sold at MP

Profit = MP - CP

$$= 27 - 20 = Rs. 7$$

Profit % = $\frac{1}{20} \times 100 = 35\%$

269. (b) According to question,



$$\frac{CP}{MP} = \frac{100}{115} = \frac{20}{23}$$

$$\frac{MP}{SP} = \frac{100}{88} = \frac{25}{22}$$

The ratio becomes

Profit % =
$$\frac{6}{500} \times 100 = 1\frac{1}{5}\%$$

270. (c) In this type of question go through option Option (c):

$$CP = Rs. 50$$

Gains as much percentage as the cost price of the article means 50

% gains

50% of CP

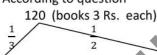
50% of Rs. 50 = Rs. 25

SP = CP + Profit

= 500 + 25

SP = 75 Rs.

271. (b) According to question



20 books 40 books 60 books

= 120 book

Total, CP = 360

SP = 520

Profit =
$$520 - 360 = 160$$

Profit % = $\frac{160}{360} \times 100 = \frac{400}{9} 44\frac{4}{9}\%$

272. (b) According to question

Sells it 10% profit of the SP

$$\frac{1 \to Profit}{10 \to SP}$$

 $CP = SP - Profit \rightarrow 10 - 1 = 9 units$

Now, 9 units \rightarrow Rs. 27

1 unit \rightarrow Rs. 3

10 units \rightarrow 3 × 10 = Rs. 30

SP of article = Rs. 30

273. (b) According to question,

SP = Rs. 144

CP is equal to percentage of profit

Note: In this type of question go

through option.

Option (b) : CP = Rs. 80

Profit% = 80%

$$SP = 80 + \frac{80}{100} \times 80 = Rs. 144 (Satisfied)$$

274. (a) According to question,



3 units $\rightarrow 2 \times 3 = 6$

4 units \rightarrow 2 × 4 = 8

(d) According to question,

$$CP = \frac{13}{15} SP, \quad \frac{CP}{SP} = \frac{13}{15}$$

If they sold 12% more then its Old selling price.

So New selling price is

=
$$15 + \frac{12}{100} \times 15 = 16.8$$

Thus, Profit = SP - CP

Profit =
$$\frac{3.8}{13} \times 100 = 29 \frac{3}{13} \%$$

276. (c) According to question,

20% profit

$$\frac{CP}{SP} = \frac{5}{6} = \frac{MP}{SP} = \frac{10}{9}$$

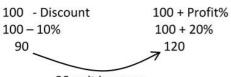
to make same SP

15 unit increase

Thus, Percentage raised = $\frac{15}{45} \times 100$

Quicker approach:

50 www.jkchrome.com www.jkchrome.com www.jkchrome.com



30 unit increase

% raised =
$$\frac{30}{90} \times 100 = 33\frac{1}{3}\%$$

277. (a) Let total consignment is 600 units And the value of 1 unit is = Rs. 1 The value of 600 units

 $= 1 \times 600 = Rs. 600$

According to question,

600

$$\frac{2}{3} Part$$
 $\frac{1}{3} part$
 400
 5%
 $2\% loss$
 420
 $196 = 616$

CP of consignment = 600

SP of consignment = 616

16 units → 400

1 unit \rightarrow 400/16

600 units
$$\Rightarrow \frac{400}{16} \times 600 = 15000$$

Value of consignment = Rs. 15000

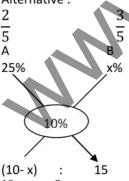
278. (c) According to question,

Thus, Remaining parts sold at CP

SP of $3/5^{th}$ part = $\frac{3}{5} \times 360000$

=Rs. 216000

Alternative:



$$\frac{10-x}{15} = \frac{2}{3}, \quad x = 0\%$$

Hence, remaining $\frac{3}{5}$ th part sold at CP 1

Thus, SP of part
$$\frac{3}{5}th = \frac{3}{5} \times 360000$$

= Rs. 216000

279. (c) Let total no. of articles is 40 unit

> CP of 1 article is Rs. 1 According to question, 40 (Article)

$$\frac{3}{4}$$
 Part $\frac{1}{4}$ Part

6 unit profit 10

Profit% =
$$\frac{6}{40} \times 100 = 15\%$$

(c) According to question,

SP of article = Rs.
$$\frac{P}{8} \times 12 = \frac{3}{2}P$$

$$=\left(\frac{3P}{2}-P\right) = \frac{3P-2P}{2} = \frac{P}{2}$$

Profit% =
$$\frac{P}{\frac{2}{P}} \times 100 = \frac{1}{2} \times 100$$

= 50%

281. (d) According to question,

25% of SP =
$$\frac{1 \rightarrow Profit}{4 \rightarrow SP}$$

$$CP = 4-1$$

$$CP = 3$$

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

= $\frac{1}{3} \times 100 = 33\frac{1}{3}\%$

$$=\frac{1}{3} \times 100 = 33\frac{1}{3}\%$$

282. (b) According to question,

20% profit on CP =
$$\frac{1-Profit}{5\rightarrow CP}$$

Thus, SP = CP + Profit

$$SP = 5 + 1$$

$$SP = 6$$

Percentage of profit calculated on SP Profit% =
$$\frac{Profit}{SP} \times 100$$

$$= \frac{1}{6} \times 100 = 16 \frac{2}{3} \%$$

283. (a) Let the total cloth is = 100 units CP of 100 units cloth are = Rs. 100

According to question,

100 (unit cloth)

5% Profit

5 % profit

284. (d) According to question,

20 dozen eggs CP = Rs. 720

1 dozen eggs CP = Rs. 36

1 egg CP = Rs. 3

to gain 20% SP of 1 egg is

= CP + Profit% × CP

$$=3+\frac{20}{100}\times3$$

= 3 + 0.6 = Rs. 3.6

285. (c) Let CP of 12 lemons = Rs. 5 units

According to question,

SP of 5 lemons = Rs. 14

SP of 1 lemon = 14/5

SP of 12 lemons = $14/5 \times 12$ = Rs. 168/5

5 units (CP) 40% Profit 7 units (SP)

7 units
$$\Rightarrow \frac{168}{5 \times 7} = \frac{24}{7}$$

5 units
$$\Rightarrow \frac{24}{5} \times 5 = 24$$

CP of 12 lemons = Rs. 24

286. (a) According to question, Mahesh purchased radio

$$= \frac{9}{10} \text{ of its SP}$$

Let original SP = 100 units

Original SP

Purchased



108 (New SP)

Profit
$$\% = \frac{18}{90} \times 100 = 20\%$$

(a) Richa purchased an article $=\frac{4}{5}$ of its list

price

Let list price = 50 units

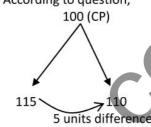
Thus, Richa purchased at = 40 units

Purchased List price

20 units 20% Profit 60 (New SP)

Profit% =
$$\frac{20}{40} \times 100 = 50\%$$

288. (d) Let CP of the article is = 100 units According to question,

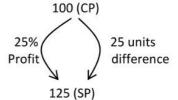


5 units \rightarrow 10

1 unit
$$\rightarrow$$

100 units
$$\Rightarrow \frac{10}{5} \times 100 = Rs. 200$$

289. (b) Let the CP of the article = 100 units According to question,



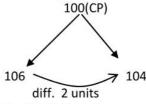
25 units → 210

1 unit
$$\Rightarrow \frac{210}{25}$$

125 units → 210/25 × 125

= Rs. 1050 (SP) Ans.

290. (b) Let CP of the article = 100 units According to question,



2 units \rightarrow 3

1 unit
$$\rightarrow \frac{3}{2}$$

100 units $\rightarrow \frac{3}{2} \times 100 = 150$

Thus, CP \rightarrow Rs. 150

291. (d) Let initial SP = 100

Reduced SP = 100 - 60 = 40

According to question,

SP 10% loss 100 90

90 units
$$\rightarrow$$
 40
1 unit \rightarrow 40/90
100 units $\rightarrow \frac{40}{90} \times 100 = \frac{400}{9}$
CP = 400/9, SP = 100
Profit = $100 - \frac{400}{9} = \frac{500}{9}$
Profit% = $\frac{\frac{500}{9}}{\frac{400}{9}} \times 100 = \frac{5}{4} \times 100 = 125\%$

292. (d) According to question,

(d) According to question,

$$CP = \frac{95}{100} SP$$

$$\frac{CP}{SP} = \frac{95}{100} = \frac{19}{20} \quad 1 \text{ unit profit}$$

$$Profit\% = \frac{1}{19} \times 100 = 5.26\%$$
(d) According to question

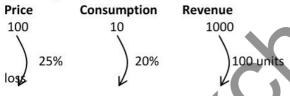
293. (d) According to question,

$$CP = \frac{90}{100} SP$$

$$\frac{CP}{SP} = \frac{9}{10} 1 \text{ unit profit}$$

$$Profit \% = \frac{1}{9} \times 100 = 11\frac{1}{9}\%$$

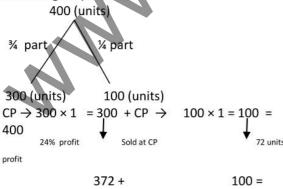
294. (d) Let the price of cloth = Rs. 100 and consumption of cloth = 10 units According to question,



75 12 Loss% =
$$\frac{100}{1000} \times 100 = 10\%$$

295. (b) Let the numbers of articles be = 400 units The CP of 1 articles = Rs. 1

The CP of 400 articles is $= 1 \times 400$ = Rs. 400 According to question,

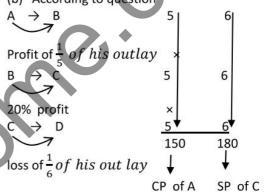


472
Profit% =
$$\frac{72}{400} \times 100 = 18\%$$

296. (c) Let CP of the article = 100 According to question, 100 (CP) 30% Profit 130 (SP) 130 units = 1690 1 unit = $\frac{1690}{130}$ = 13

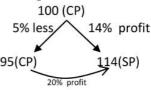
CP = Rs. 1300297. (b) According to question

 $100 \text{ units} = 13 \times 100 = 1300$



180 units = 600 1 unit = $\frac{600}{180}$ 150 units = $\frac{600}{180} \times 150 = 500$ CP of A = Rs. 500

298. (c) According to question, Let original Price = 100



14% Ans.

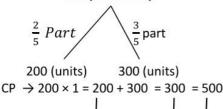
299. (c) Profit of A = Profit of B 10% A = 15% B $\frac{A}{B} = \frac{15}{10} =$ A:B=3:2

> Now with the help of option, check the ratio of CP of A and B

300. (b) Let the number of unit land is = 500 units

CP of 1 unit land = Rs. 1 According to question,

500 (units land)



increase
$$\downarrow$$
 10% profit
SP \rightarrow 188 + 362 = 550

62 units

Gain% =
$$62/300 \times 100 = 20\frac{2}{3}\%$$

301. (a) Let the marked price = 100 According to the question,

Selling price =
$$\frac{MP}{2} = \frac{100}{2} = 50$$

6% loss

Cost Price =
$$50 \times \frac{100}{80} = \frac{125}{2}$$

Profit = MP - CP

$$= 100 - \frac{125}{2}$$

Profit = MP - CP
=
$$100 - \frac{125}{2}$$

Profit = $\frac{75}{2}$
Profit% = $\frac{75}{2} \times \frac{2}{125} \times 100 = 60\%$

302. (a) According to the question,

Profit =
$$S.P. - C.P.$$

$$= 30 - 25 = Rs. 5$$

$$P\% = \frac{5}{25} \times 100 = 20\%$$

303. (d) Given,

As we know

$$\rightarrow$$
 C.P. \times 90% = S.P.

$$\rightarrow$$
 C.P. \times 9/10 = 270

$$\rightarrow$$
 C.P. = Rs. 300

Thus, Cost price of article is Rs. 300

304. (a) According to question,

Total change =
$$a - b - \frac{ab}{100}$$

= $20 - 20 - \frac{20 \times 20}{100}$

$$=20-20-\frac{20\times20}{100}$$

= - 4 [(-) sign shows decrease]

305. (c) According to question, 20% Profit = $\frac{1 \rightarrow Profit}{5 \rightarrow SP}$ Thus, CP = SP - Profit

$$CP = 5 - 1 = 4$$

Actual Profit always count on CP

i.e., Profit % =
$$\frac{1}{4} \times 100 = 255$$

306. (b) According to question, CP of a book = Rs. 150

Profit = 20%

SP of a book = CP + Profit% × CP
=
$$150 + \frac{20}{100} \times 150$$

= $150 - 30$

$$SP = 150 + 30 = 180$$

307. (d) According to question,

Cost 7 oranges = Rs. 3

Cost of 1 orange = Rs. 3/7

for 33% gain

$$\Rightarrow$$
 SP $=\frac{3}{7} \times \frac{133}{100}$ for 100 oranges

308. (d) According to question,

Loss of 20 % is incurred = 100 - 20 = 80

When 6 articles are sold =

CP of 1 articles =
$$\frac{1}{6} \times \frac{100}{80}$$

CP of 1 articles =
$$\frac{1}{6} \times \frac{100}{80}$$

to gain 20% = $\frac{1}{6} \times \frac{100}{80} \times \frac{120}{100} = \frac{1}{4}$

Articles should be sold Rs. 1 to gain 20% is = 4

- 309. (c) According to question,
 - SP of 12 oranges is = Rs. 60

CP of 12 oranges is = $60 \times 100/75 = 80$

to gain 25%

$$SP = 80 + \frac{25}{100} \times 80 = Rs. \ 100$$

12 oranges sell for Rs. 100 to gain 25% = 12 organges

310. (b) S.P. of 4 article = Rs. 1

C.P. of 4 article
$$1 \times \frac{100}{96} = \frac{100}{96}$$

C.P. of 4 article
$$1 \times \frac{100}{96} = \frac{100}{96}$$

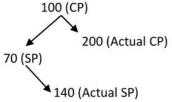
C.P. of 3 article $\frac{100}{96} \times \frac{3}{4} = \frac{75}{96}$

New S.P. of 3 article = Rs. 1

Profit% =
$$\frac{\frac{1-75}{96}}{\frac{75}{96}} \times 100$$

$$=\frac{21}{75}\times 100 = 28\%$$

311. (a) According to question,



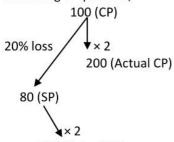
CP of 80 ball pens = Rs. 200

CP of 1 ball pens = Rs. 2.5

to gain 30% SP of 1 ball pens = $2.5 + \frac{30}{100} \times 2.5$ = 2.5 + 0.75 = Rs. 3.25

Ball pens he purchased in Rs. 104 = $\frac{104}{3.25}$ = 32 Pens

312. (a) Let CP of the ball pen in = 100 According to question,



160 (Actual SP)

CP of 90 ball pens = Rs. 200 CP of 1 ball pen = $\frac{200}{90}$ = Rs. $\frac{20}{9}$

to gain 20% SP of 1 ball

$$= \frac{20}{9} + \frac{20}{100} \times \frac{20}{9}$$
$$= \frac{20}{9} + \frac{4}{9} = \frac{24}{9}$$
$$= Rs. \frac{8}{3}$$

No. of ball pens purchased for Rs.

$$\frac{96}{8} \times 3 = 36$$
 ball pens

313. (c) Let SP 1 article = Rs. SP 21 article = 21 × 21 = Rs. 21 CP of 1 article = $x \times 21$ = Rs. 21x According to question,

Loss = CP - SP
3 = 21x - 21
21x = 24
x =
$$\frac{24}{21}$$
 = $\frac{8}{7}$

$$3 = 21x - 21$$

$$21x = 2$$

$$x = \frac{24}{21} = \frac{8}{7}$$

CP of article = Rs. $\frac{8}{7}$

CP of 21 articles = $\frac{8}{7} \times 21 = Rs$. 24

Loss = CP - SP =
$$24 - 21 = 3$$

Loss% = $\frac{3}{24} \times 100 = 12\frac{1}{2}\%$

314. (b) Let SP of 1 chair = Rs. 1

SP of 250 chairs = Rs. 250

CP of 1 chair = Rs. x

CP of 250 chair = $x \times 250 = 250x$

According to question,

Gain = SP - CP

50 = 250 - 250x

250x = 200

$$x = \frac{200}{250} = \frac{4}{5}$$

CP of 1 chair = Rs. $\frac{4}{5}$

CP of 250 chair = Rs. 250 Gain% = $\frac{50}{200}$ × 100 = 25%

315. (c) Let SP of 1 oranges = Rs.

SP of 36 oranges = Rs. 36

CP of 1 orange = Rs. x

CP of 36 oranges = Rs. 36x

According to question,

Loss = CP - SP

4 = 36x - 36

$$x = \frac{40}{36} = \frac{10}{9}$$

CP of 1 oranges = $\frac{10}{9}$

CP of 36 oranges = $\frac{10}{9} \times 36 = Rs. 40$

 $Loss\% = \frac{4}{40} \times 100 = 10\%$

316. (b) According to the question,

Thus, CP of 4 bananas is = Rs. 1

Thus, CP of 1 bananas = Rs. $\frac{1}{4}$

→ For making

 $33\frac{1}{3}\%$ profit SP of banana will be =

$$\frac{1}{4}1\frac{3}{4} = Rs.\frac{1}{3}$$

→ Therefore 3 bananas should be sold in Rs. 1

317. (b) SP of 1 potatoes = Rs. 63/12 = Rs. 21/4

$$CP \times \frac{100 + P\%}{} = SF$$

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

$$CP \times \frac{105}{100} = \frac{21}{4} = Rs. 5$$

gain or loss percent by selling 50

kg of the same potatoes for

Rs. 247.50

CP of 50 kg potatoes = 50×5 = Rs. 250

Loss = 250 - 247.50 = Rs. 2.50

Loss% =
$$\frac{2.50}{250} \times 100 = 1\%$$

318. (a) Let CP of a watch = Rs. xAccording to question,

$$4x = 14 \times 450 - 14x$$

$$18x = 14 \times 450$$

$$x = \frac{14 \times 450}{18} = 350$$

CP of a watch = Rs. 350

319. (c) According to question, $CP = 30 \times 9.50 + 30 \times 8.5$ = 30 (9.5 + 8.5) $= 30 \times 18 = Rs. 540$

 $SP = 60 \times 8.90$

Rs. = 534

Loss = CP - SP

= 540 - 534 = Rs. 6

320. (b) According to question, CP of 12 articles = Rs. 12 CP of 1 articles = Rs. 1 SP of 1 article = Rs. 1.25 Profit = SP - CP

Profit = Rs. (1.25 - 1) = 0.25

Profit% = $\frac{Profit}{CP} \times 100$ $=\frac{0.25}{1}\times100=25\%$

321. (a) Given, CP of 10 kg, apples = 405 But 1 kg rotten

thus, remaining = 9 kg apple thus, CP of 1 kg apple

= 4052/9 = 45 To gain 10% of 45 = 4.5

SP = 45 + 4.5 = Rs. 49.5

322. (a) According to question,

SP of 12 = Rs. 1800

SP = CP + Profit

12 CP + 3 CP = Rs. 1800 (as gain is 3 CP)

$$CP = \frac{1800}{15} \to CP = Rs. 120$$

323. (a) According to question

CP of 200 book = 12000 CP of 1 book = $\frac{12000}{200}$ = Rs. 60

To get 20 book free

Profit = $20 \times 60 = 1200$

i.e. 10% of Rs. 12000

→ 10%

324. (c) According to question, Reduction in S.T. = $\frac{7}{2} - \frac{10}{3} = \frac{21-20}{6}$

$$=\frac{1}{6}\% = \frac{1}{600}$$

 $= \frac{1}{6}\% = \frac{1}{600}$ Thus, Reduction in price marked at 8400

 $= 8400 \times \frac{1}{600} = 14$

325. (d) In such type of pattern based question adopt option approach,

1st→ Check largest value of CP

2nd. → Check smallest value of CP

Mark the answer which is greatest.

Option (d) $1^{st} \rightarrow \frac{29}{60} \times 100 = 48.33$ Option (a) $2^{nd} \rightarrow \frac{17}{36} \times 100 = 47.22 \ (wrong)$

326. (a) According to question,

CP = 1200

Repair = 200

Total CP = Rs. 1400

SP = Rs. 1680

Profit = 280

Profit% = $\frac{280}{1400} \times 100 = 20\%$

327. (d) According to Question,

CP of 2 dozen bananas (24 bananas) is = Rs. 32

SP of 1 dozen bananas (12 bananas) = Rs. 12

SP of 18 bananas is = Rs. 18

Thus, Now shopkeeper reduced to the rate Rs. 4/ dozen

Now, SP of 1 dozen bananas is Rs. 4

SP of 6 bananas is Rs. 2

Thus SP of total 24 bananas is Rs. = 18 + 2 = 20

Loss = CP - SP

= 32 - 20 = 12

 $Loss\% = \frac{12}{32} \times 100 = 37.5\%$

328. (c) According to question,

> Passing through 3 hands rises on the whole by 65% mean

65% increase 165

According to question,

25% increase 150 20%

Increase

Thus 3rd earned profit is 10%

329. (d) According to question,

 $CP ext{ of 1 cup} = Rs. ext{ 10}$

CP of 100 cups = 10×100 = Rs. 1000

Now 20 cups are broke means = Now 20 cups are

broken means = 100 - 20 = 80 cups

SP of 1 cup is = Rs. 11

SP of 18 cups are = $11 \times 80 = Rs. 880$

thus, Loss = CP - SP

= 1000 - 880 = 120

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

 $=\frac{120}{1000} \times 100 = 125$

330. (b) Let the original price = x per dozen

New price = (x - 4) per dozens New numbers of pins = 48/x dozens New members of pins = $\frac{48}{x-4}$ dozens

According to question,

$$\frac{48}{x-4} - \frac{48}{x} = 1$$

$$8\left[\frac{x-x+4}{x(x-1)}\right] = 1$$

$$48 \times 4 = x(x-4)$$

$$x^2 - 4x = 192$$

$$x^2 - 4x - 192 = 0$$

$$x^2 - 16x + 12x - 192 = 0$$

$$x(x-16) + 12(x-16) = 0$$

$$(x-16)(x-12=0)$$

$$x = 16, -12$$

Thus, Original price = Rs. 16 New price = Rs. (16 - 4) = Rs. 12

Alternative:

Take help from option

Option (b) = Rs. 12 (reduction Price)

Thus, Original Price = 12 + 4 = 16

Original Price

Reduced Price

48/16 = 3 dozens

48/12 = 4 dozens Pin



1 dozens increase (Satisfied the question) Cost of Pins per dozen after reduction = Rs. 12

331. (d) According to question,

$$1^{\text{st}} \text{ Middleman} \rightarrow 5$$

$$2^{\text{nd}} \text{ Middleman} \rightarrow 5$$

$$2^{\text{nd}} \text{ Middleman} \rightarrow 5$$

$$3^{\text{rd}} \text{ Middleman} \rightarrow 5$$

$$20\% \text{ profit} \qquad 6$$

$$20\% \text{ profit} \qquad 6$$

$$125 \qquad 216$$

$$\times 1600$$

× 1600

[200000]

345600

332. (d) According to question Loss = 20% SP i.e. Loss/SP = 1/5

Thus, CP = SP + Loss = 5 + 1 = 6
Thus, Loss % =
$$\frac{1}{6} \times 100 = \frac{50}{3}$$
%

CP of A = Rs. 2000334. (a) According to question Loss Given.

CP - 9400 = x

 $10600 - CP = 2 \times$ (ii)

Put the value of eq. (i) in eq. (ii) 10600 - CP = 2CP - 18800

3 CP = 2940029400 = 9800

(c) According to question, $SP ext{ of } 20 ext{ apples} = Rs. 100$ gained = 20%

Thus, CP of 20 apples = $100 \times \frac{100}{120} = \frac{250}{3}$

CP of 1 apples = $\frac{250}{3 \times 20} = \frac{25}{6}$ In 100 Rs. he buy = $\frac{100}{25} \times 6 = 24$ apples

336. (d) According to question,

CP of 1 Pen = Rs. 50

CP of 50 pen = Rs. 50×50 = Rs. 2500

to gain 10% overall sold a = 2750

Now, 40 pen sold at 5% loss

Thus, SP of 40 pens = 40×47.5 = Rs. 1900

Remaining 10 pens sold to get overall profit of

SP of 1 =
$$\frac{850}{10}$$
 = Rs. 85
CP of 1 pen = Rs. 50

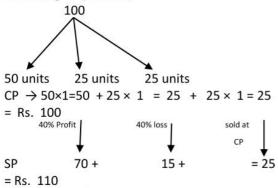
Profit % of remaining pen = $\frac{35}{50} \times 100 = 70\%$

337. (c) Let total number of cloth = 100 units

1

0

CP of 1 unit cloth = Rs. 1 CP of 100 units cloth are = 1×100 = Rs. 100 According to question,



Profit % = $10/110 \times 100 = 10\%$ gain

338. (b) Given:

36

20% Profit on SP means =
$$\frac{1}{5}$$

20% Profit $\rightarrow \frac{10 \rightarrow Profit}{50 - SP}$
Thus, CP = SP - Profit
CP = $50 - 10$
= 40
CP SP
 40 50
 \downarrow

45

New CP New SP

9 units Profit Profit% = $\frac{Profit}{CP} \times 100$ = $\frac{9}{36} \times 100 = 25\%$ An

339. (c) Let cost price = Rs. 100 According to question,

×7000 791000 (Given SP)

113 units = 791000 1 unit = $\frac{791000}{113}$ = Rs. 7000

13 units = 7000 × 13 = Rs. 91000

340. (c) Let CP of a car is = 100 According to question, $100 \text{ (CP)} \xrightarrow{20\% \text{ loss}} 80 \text{ (SP)}$ Given a 80 units = 64000

Given: 80 units = 64000 1 unit = 64000/80 = 800 100 units = $800 \times 100 = 80000$ CP of the Car = Rs. 80000

341. (a) According to question, CP of Radio = Rs. 225 Overhead expenses = Rs. 15 Total expenditure = 225 + 15 = Rs. 240 SP of the Radio = Rs. 300 Profit %= 300 - 240 = Rs. 60 Profit% = $\frac{60}{240} \times 100 = 255$

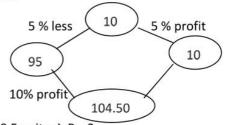
342. (d) According to question,
CP of 1 cycle = Rs. 500
CP of cycle = 500 × 10 = Rs. 5000
Spent on repair = Rs. 2000
Now,

Total CP = 5000 + 2000 = Rs. 7000 SP of 5 cycle = $750 \times 5 = Rs$. 3750 SP of 5 cycle = $550 \times 5 = Rs$. 2750 Thus, SP of 10 cycle = Rs. 3750 + 2750 = 6500

Loss = CP - SP Loss = 7000 - 6500 = 500Loss% = $\frac{500}{7000} \times 100 = \frac{50}{7}$

 $=7\frac{1}{7}\%$

343. (d) Let the C.P. = Rs. 100



0.5 units \rightarrow Rs. 2 100 units \rightarrow $\frac{2 \times 100}{0.5}$ = Rs. 400

344. (d) According to question, Pen \times Profit% = Total Profit 50 \times 10 = 500 100 \times 17.5 = 1750

Total 150 pens \times 15 = 2250

Thus, Remaining profit % of pen = 17.5%

345. (c) According to question,
Watch Wall Clock
(10% Profit) (15% Profit)
39 58.5

```
7 12.5
14 + 25 39 units
```

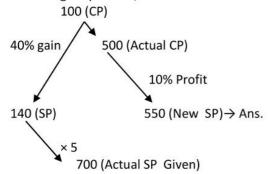
Diff. 11 units

39 units = 390

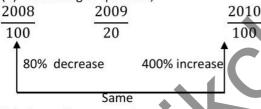
1 unit =
$$\frac{390}{39} = 10$$

11 units = 10×11 = Rs. 110

346. (b) Let the CP of the article = 100 According to question,



347. (b) According to question,



348. (b) According to question, CP of Radio = Rs. 600

5% of CP is charged = $\frac{5}{100} \times 600$

= Rs. 30

Thus, Total CP = 600 + 30 = Rs. 630

to gain 15% then SP = $630 + \frac{15}{100} \times 630 =$

724.5

349. (b) Account to question,



350. (a) Let CP of 1 bucket = Rs.x CP of 1 mug = Rs. y According to question, $_{5\times}(8x + 5y) = 92_{\times 5} = 460_{8\times}(5x + 8y) = 77_{\times 8} = 616$

$$40x + 25y = 460$$

$$40x + 64y = 616$$

$$(-) (-) (-)$$

$$39y = 156$$

$$y = \frac{156}{39} = 4$$

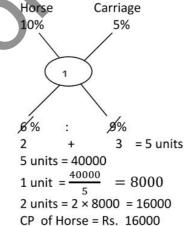
Put y in eq. (i) Thus, 8x + 20 = 928x = 72, x = 9

Thus, Cost of 2 mugs and 3 buckets

 $2 \times 4 + 3 \times 9$

8 + 27 = Rs. 35

351. (c) According to question,



352. (a)

Thus, Cost of Cow = Rs. 12000

354. (b) Let the number of bad apples = xC.P. of (140 - x) apples = Rs. 600

SP of (240 - x) apples = Rs. $3.5 \times (240 - x)3$.

According to the question,

$$\rightarrow$$
 3.5 × (240 - x) - 600 = 198

x = 12

$$\Rightarrow$$
 x% = $\frac{12}{240}$ × 100% = 5%

SP of apples = 600 + 198 = 798

No. of apples sold =
$$\frac{798}{35}$$
 = 228

No. of apples
$$= 600 + 138 = 798$$

No. of apples sold $= \frac{798}{3.5} = 228$
% of apples thrown $= \frac{240 - 228}{240} = \frac{12}{240} \times 100 = 5\%$

355. (c) According to the question,

40 dozen bananas means = 480 bananas

30 Bananas rotten = 480 - 30 = 450

Bananas remaining = 450

Thus, C.P. of 40 dozen Bananas = Rs. 250

to make 20% S.P. of 450 bananas

$$=250 \times \frac{120}{100} = Rs. 300$$

Thus, S.P. of 1 bananas = $\frac{300}{450} = Rs_{\bullet} \frac{2}{3}$

S.P. of dozen bananas = $\frac{2}{3} \times 12$

$$= Rs. 8$$

356. (b) S.P. of chair = Rs. 600

C.P. of chair = Rs. x

ATQ.

120% of x = Rs. 600

$$x = 600 \times \frac{100}{120} =$$

$$x = 500$$

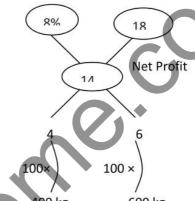


5 + x = 12 Because there is no profit no loss x =

Then loss is 7-6=1

Thus, Loss% =
$$\frac{1}{7} \times 100 = 14\frac{2}{7}\%$$

359. (c)



400 kg 600 kg

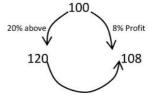
otal quantity = 10

1000 kg

8% profit qty = 400 kg

360. (a) Let C.P of the articles = 100

According to the question



10% Discount

Profit % = 8

357. (d) According to question

$$345 + 450 = 795$$

$$1086 = \frac{5}{800} \times 100 = -\frac{5}{8}\%$$

358. (c) According to question,



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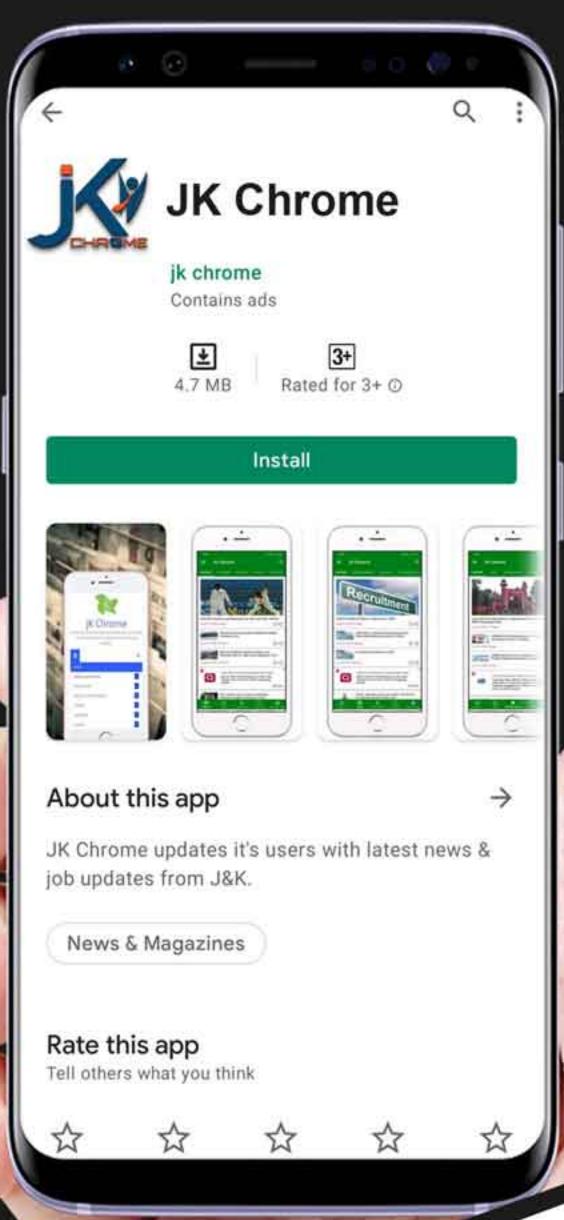
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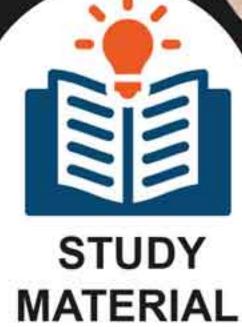
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