

Profit and Loss

Model 1: Basic Profit/Loss

(Deloitte 2015,AMCAT 2016)

1. An Umbrella was sold at a profit of 20%. What is the selling price of the Umbrella, if its cost price is ₹ 180?

- **①**
- 1) ₹ 216
- 2) ₹ 200
- 3) ₹ 160
- 4) ₹ 36
- 5) None of these

2. A person sold an article for ₹ 20 and earned a profit of 25%. What is the cost price of the article?

- 1) ₹ 16
- 2) ₹ 14
- 3) ₹ 12
- 4) ₹ 18
- 5) None of these

3. An article was sold for ₹ 13,000 at a loss of 35%. What is the cost price of the article?



- 1) ₹ 16,000
- 2) ₹ 13,700
- 3) ₹ 15,000
- 4) ₹ 20,000
- 5) None of these

4. Harshad bought 15 DVD players at ₹ 4,500 each and sold all of them at the total price of ₹ 81,000. What is the percent profit earned in the deal?

- 1) 16
- 2) 20
- 3) 25
- 4) 20.5
- 5) None of these

5. A shopkeeper sells 200 m of cloth for ₹ 9,000 at a profit of ₹ 5 per m. What is the cost price of 1 m of cloth?

- 1) ₹ 45
- 2) ₹ 40
- 3) ₹ 35
- 4) ₹ 30
- 5) None of these

6. Naresh purchased a TV set for ₹ 11,250 after getting a discount of 10% on the labeled price. He spent ₹ 150 on transport and ₹ 800 on installation. At what price should it be sold so that the profit earned would be 15%?

- 1) ₹ 12,937.50
- 2) ₹ 14,030
- 3) ₹ 13,450
- 4) ₹ 15,467.50 5) None of these

7. Manoj sold an article for ₹ 15,000. Had he offered a discount of 10% on the selling price, he would have earned a profit of 8%? What is the cost price?



1) ₹ 12,500

2) ₹ 13,500

3) ₹ 12,250

4) ₹ 13,250

5) None of these

8. If Ramu buys books at 11 books for ₹ 10 and sells at 10 books for ₹ 12, then what will be his gain percent?

1) 11%

2) 22%

3) 32%

4) 15%

5) None of these

Model 2: SP/CP with Respect to Two Different Profit/Loss Percentages

(Infosys 2016, AMCAT 2016)

9. A watch was sold at a loss of 9%. It was observed that if the selling price was ₹ 420 more, the profit made would have been 5%. What is the actual selling price of the watch?

1) ₹ 2700

2) ₹ 2730

3) ₹ 3270

4) ₹ 3000

5) None of these

10. After selling a book, Rohan found that he had made a loss of 12%. He also found that had he sold it for ₹ 36 more, he would have made a profit of 6%. What was the initial loss?

1) ₹ 12

2) ₹ 18

3) ₹ 20

4) Data inadequate

5) None of these

11. Praveen sold an article for ₹ 1170 at a profit of 30%. What should be the selling price if the desired profit is 40%?

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1) ₹ 1330

2) ₹ 990

3) ₹ 1287

4) ₹ 1260

5) None of these

12. Sameer sold an article ₹ 460 and earned a profit of 15%. At what price should it have been sold so as to earn a profit of 20%?

1) ₹ 465

2) ₹ 480

3) ₹ 498

4) ₹ 485

5) None of these

Model 3: CP Based on Profit and Loss Relationship (Accenture 2016)



13. The profit earned by selling a phone for ₹ 18,000 is the same as the loss incurred by selling it for ₹ 16,800. What is the cost price of the phone?

- 1) ₹ 17,400
- 2) ₹ 17,000
- 3) ₹ 17,500
- 4) ₹ 17,600
- 5) None of these

14. The profit earned by selling an article for ₹ 625 is the same as the loss incurred by selling the article for ₹ 435. What is the cost price of the article?

- 1) ₹ 530
- 2) ₹ 520
- 3) ₹ 540
- 4) ₹ 550
- 5) None of these

15. The profit earned by selling an article for ₹ 536 is the same as the loss incurred after the article for ₹ 426. What is the cost price of the article?

- 1) ₹ 448
- 2) ₹ 470
- 3) ₹ 481
- 4) ₹ 500
- 5) None of these

16. The profit earned by selling a shirt for ₹ 1200 is twice the loss incurred when the shirt is sold for ₹ 600. What is the cost price of the shirt?

- 1) ₹800
- 2) ₹ 1000
- 3) ₹ 900
- 4) ₹ 750
- 5) None of these

17. The profit earned by selling a wrist watch for ₹ 5800 is twice the loss incurred after selling the wrist watch for ₹ 4300. What is the cost price of the wrist watch?

- 1) ₹ 5300
- 2) ₹ 5100
- 3) ₹ 4900
- 4) ₹ 4800
- 5) None of these

18. The profit earned by selling an article for ₹ 4080 is half the loss incurred after selling the same article for ₹ 3660. What is the cost price of the article?

- 1) ₹ 3785
- 2) ₹ 3800
- 3) ₹ 3775
- 4) ₹ 3940
- 5) None of these

Model 4: Profit/Loss Percentage Based on Quantity Sold (AMCAT 2015)

19. Sridhar sold 16 pens at the cost of 20 pens. What is the profit or loss percentage made by him?

- 1) 4% profit
- 2) 4% loss
- 3) 25% profit 4) 25% loss
- 5) Cannot be determined



20	Prem sold 10 pens at the cost of 12 sim	nilar pens. What % profit or le	oss does he make in this
	transaction?		
	1) 20% profit	2) 25% profit	3) 16.66% loss
	4) 20% loss	5) None of these	
21	. Aniruddh sold 21 books at the cost pr	rice of 18 books. Find the per	centage profit or loss in
(•)	this transaction?		
\sim	1) 14.28% profit	2) 14.28% loss	3) 16.66% profit
	4) 16.66% loss	5) None of these	
22	a. Ajit sold 20 apples at the cost price of 1	6 apples. What profit/loss doe	es he make?
	1) ₹ 10	2) Cannot be determined	3)₹5
	4) ₹ 6	5) None of these	-,
М	odel 5: Overall Profit/Loss Percent	age When S1 = S2 and %	P = %L
М	odel 5: Overall Profit/Loss Percent		P = %L ogemini 2016)
	odel 5: Overall Profit/Loss Percenta	(Сар	ogemini 2016)
		(Cap for ₹800 each. He sold one for	ogemini 2016) an at a profit of 12% and
	s. A shopkeeper bought two ceiling fans	(Cap for ₹800 each. He sold one for	ogemini 2016) an at a profit of 12% and
	6. A shopkeeper bought two ceiling fans the other at a loss of 12%. What would	(Cap for ₹800 each. He sold one fa be his overall profit or loss in	an at a profit of 12% and the transaction?
	the other at a loss of 12%. What would 1) No Profit No loss	(Cap for ₹800 each. He sold one fa be his overall profit or loss in 2) Loss 1.44%	an at a profit of 12% and the transaction?
23	the other at a loss of 12%. What would 1) No Profit No loss	(Cap for ₹800 each. He sold one for be his overall profit or loss in 2) Loss 1.44% 5) None of these	an at a profit of 12% and the transaction? 3) Profit 1.44%
23	5. A shopkeeper bought two ceiling fans the other at a loss of 12%. What would 1) No Profit No loss 4) Loss 4%	(Cap for ₹800 each. He sold one for be his overall profit or loss in 2) Loss 1.44% 5) None of these	an at a profit of 12% and the transaction? 3) Profit 1.44% profit of 10% on one and
23	 A shopkeeper bought two ceiling fans the other at a loss of 12%. What would 1) No Profit No loss 4) Loss 4% A person bought two articles for the same 	(Cap for ₹800 each. He sold one for be his overall profit or loss in 2) Loss 1.44% 5) None of these	an at a profit of 12% and the transaction? 3) Profit 1.44% profit of 10% on one and
23	the other at a loss of 12%. What would 1) No Profit No loss 4) Loss 4% A person bought two articles for the sa a loss of 10% on the other. What is the o	(Cap) for ₹800 each. He sold one for the sold one for th	an at a profit of 12% and the transaction? 3) Profit 1.44% profit of 10% on one and by him?



25. A person sold two articles for ₹ 1200 each; he made a profit of 20% and a loss of 20% on the other. What will be the overall profit or loss in percentage? 1) No Profit No loss 2) Cannot be determined 3) Profit 4% 4) Loss 4% 5) None of these 26. If a person sold two articles at the same price and realized 10% profit on one and 10% loss on the other article. What net profit/loss % does he make? 3) Profit 1% 1) No Profit No loss 2) Loss 1% 4) Loss 10% 5) None of these **Model 6: Effective Percentage Problem** (AMCAT 2016) 27. A sold an article to B at a profit of 20% and B sold the same article to C at a profit of 10%. If C bought it for ₹ 2640, how much did A pay for it? 1) ₹ 2000 2) ₹ 1500 3) ₹ 1600 4) ₹ 1540 5) None of these 28. Prathik sold a music system to Karthik at 20% gain and Karthik sold it to Swasthik at 40% gain. If Swasthik paid ₹ 10,500 for the music system, what amount did Prathik pay for the same? 1) ₹ 8,240 2) ₹ 7,500 3) ₹ 6,250 4) Cannot be determined 5) None of these 29. Prakash sold an article to Prem at 10% profit. Prem sold the same to Raj at 10% loss. If Prakash bought the article at ₹ 2000, at what price did Raj buy the same?

Model 7: Dishonest Dealer Problem

2) ₹ 1,980

1) ₹ 2,000

30. A dishonest dealer claims to sell his goods at the cost price but uses a weight of 800 gm

3) ₹ 2,500



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4) ₹ 1,800

5) None of these

5



		instead of 1 kg. W	That will be the	profit percei	ntage in this trar	saction?
		1) 15%	2) 20%	3) 25%	4) 32%	5) None of these
	31.	A milkman sells	milk at the cost	price but de	livers only 1800	ml instead of 2 liters. What will
		be the profit perc	entage made b	y the milkma	n?	
		1) 15%	2) 11.11%	3) 20%	4) 25%	5) None of these
	Mc	odel 8: Marked F	Price and Dis	count	(Tech Mahin	ndra 2016, Capgemini 2016)
1000	32.	An article was so	ld for ₹480 afte	er a discount	of 20%. What is	the marked price?
(?	1) ₹ 400		2)₹	576	3) ₹ 600
•	_	4) Cannot be dete	ermined	5) N	one of these	
	33.	If the selling pric	e of ₹24 result	s in a 20% di	scount on the li	st price, then what selling price
		would result in a	30% discount	on list price?		
		1) ₹ 21	2) ₹ 24	3) ₹ 18	4) ₹ 15	5) None of these
	34.	In a sale, a perfu	me is available	e at a discou	nt of 15% on the	e selling price. If the perfume's
		discounted selling	g price is₹374	0, what was t	he original sellir	ng price of the perfume?
		1) ₹ 4,324	2) ₹ 4,386	3) ₹ 4,400	4) ₹ 4,294	5) None of these
	35	A shonkeener ma	arke hie goode	in such a way	z that even after	allowing a discount of 20%, he
6	<u>5</u>		· ·	•		re is the marked price?
C	ソ	1) 32%	2) 8%	3) 12%	4) 40%	5) None of theses
		-, / -	_,	·,, ·	_, _, .,	0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
	36.	A shopkeeper ma	arks his goods	in such a way	that after allow	ring a discount of 10%, he gains
		17%. How much	percent above	C.P. is the ma	arked price?	
		1) 50%	2) 30%	3) 27%	4) 7%	5) None of theses

37. At what price should a shopkeeper mark a radio that cost him $\stackrel{?}{ extsf{T}}$ 1200 in order that he may



offer a discount of 20% on the marked price and still make a profit of 25%?

- 1) ₹ 1675
- 2) ₹ 1875
- 3) ₹ 1900
- 4) ₹ 2025
- 5) None of these
- 38. Sanjay bought a microwave oven and paid 10% less than the original price. He sold it with 30% profit on the price he had paid. What percentage of profit did Sanjay earn on the original price?
 - 1) 17%
- 2) 20%
- 3) 27 %
- 4) 32%
- 5) None of these

Answers

1 - 1	2 - 1	3 - 4	4 - 2	5 - 2	6 - 2	7 - 1	8 - 3	9 - 2	10 - 5
11 - 4	12 - 2	13 - 1	14 - 1	15 - 3	16 - 1	17 - 4	18 - 4	19 - 3	20 - 1
21 - 2	22 - 2	23 - 1	24 - 4	25 - 4	26 - 2	27 - 1	28 - 3	29 - 2	30 - 3
31 - 2	32 - 3	33 - 1	34 - 3	35 - 4	36 - 2	37 - 2	38 - 1		

Practice Questions

- 1. For every set of 19 kites sold, a vendor gives 1 kite extra, free of cost. In order to give a discount of 10%, the number of extra kites he should give in a sale of 27 kites to the nearest integer is
 - a) 3
- b) 6
- c) 7
- d) 8
- 2. A ruby stone was bought for ₹ 1600 at Jaipur. A sum of ₹ 2400 was spent on making a ring with the ruby stone. It was advertised for sale at Bombay for ₹ 7800. If a discount of 10% was given, then the % profit made was
 - a) 55%
- b) 68.5%
- c) 75.5%
- d) 80%



3.	3. A shopkeeper buys an article for ₹ 450. He marks it at 20% above the cost price. Find the						
	percentage disco	unt given by hi	m if he sells the	e article for ₹ 496.80.			
	a) 8%	b) 9%	c) 10%	d) 12%			
4.	A person bough	t 76 cows and	d sold 20 cow	s at 15% profit, 40 cows at 19% profit and			
	remaining 16 cov	vs at 25% profi	t and got a pro	fit of ₹ 6570 as a whole. The cost price of each			
	cow is						
	a) ₹ 450	b) ₹ 425	c) ₹ 420	d) ₹ 400			
5.	•			nstead if he would have bought 8 cows and 3			
	goats, he had to p	oay ₹ 53,000 mo	ore. Cost of one	cow is			
	a) ₹ 11,000	b) ₹ 12,000	c) ₹ 13,000	d) ₹ 10,000			
_	A 1 1	1 (1)		100 TATE (1111 (1 11) 11 11 11 11 11 11 11 11 11 11 11 1			
6.		-		80. What will be the selling price, if he allows			
	two successive di	scounts at 5%	each?				
	a) ₹ 72.2	b) ₹ 7.2	c) ₹ 85	d) ₹ 7.2			
7.	On selling an art	icle for ₹ 170.	a shopkeeper l	loses 15%. In order to gain 20%, he must sell			
	that article at rup			<i>θ</i> ,			
	a) 215.50	b) 212.50	c) 240	d) 210			
	,	,	,	,			
8.	The marked price	e of a product	is ₹ 1600. The s	shopkeeper gives successive discounts of 10%			
	and x% to the cu	astomer. If the	customer pays	s ₹ 1224 for the product, find the value of x .			
	a) 10%	b) 12%	c) 15%	d) 8%			
9.	A man makes a p	profit of 20% or	n the sale by se	elling 20 articles for ₹ 1. The number of article			
	he bought by ₹1	is_					
	a) 20	b) 24	c) 25	d) 30			



10.	10. An article is sold for ₹ 300 at a profit of 20%. Had it been sold for ₹ 235, the loss percentage								
	would have been	1							
	a) 16	b) 3	c) 5	d) 6					
11.	. A dozen pairs of	socks quoted a	at₹180 are ava	nilable at discount of 20%. How many pairs of					
	socks can be bou	ght for₹48?							
	a) 3 pairs	b) 4 pairs	c) 2 pairs	d) 5 pairs					
			7						
12.	•			was sold for ₹ 10,500 after allowing a certain					
	discount, then the rate of discount is								
	a) 17.5%	b) 10%	c) 12.5%	d) 15%					
12	The marked price	o of a radio sot	ic ₹ 180 Thock	nopkeeper allows a discount of 10% and gains					
10.	•			•					
	8%. If no discour								
	a) 25%	b) 18%	c) 18.5%	d) 20%					
14	. A tradesman solo	d an article at a	loss of 20%. If	the selling price had been increased by ₹ 100,					
	then would have	been a gain of	5%. The cost p	rice of the article (in ₹) was					
	a) 100	b) 200	c) 400	d) 500					
15.	. The price of an a	article is first de	ecreased by 20°	% and then increased by 30%. If the resulting					
	price is ₹ 416, the	e original price	of the article is	_					
	a) ₹ 350	b) ₹ 405	c) ₹ 400	d) ₹ 450					
16.	. The total cost of	8 buckets and	5 mugs is ₹ 92	and the total cost of 5 buckets and 8 mugs is					
	₹77. Find the cos		O .	G .					
	a) ₹ 35	b) ₹ 70	c) ₹ 30	d) ₹ 38					
	a) (33	<i>b)</i> (70	C) \ 30	u) (30					



17.	7. A shopkeeper earns a profit of 12% on selling a book at 10% discount on printed price. The								
	ratio of the cost pr	rice to printed	price of the boo	k is –					
	a) 45:56	b) 50:61	c) 90:97	d) 99:125					
18.	The cost of an ap	ple is twice tha	it of a banana a	nd the cost of a banana is 25% less than that					
	of a guava. If the cost of each type of fruit increases by 10%, then the percentage increase in								
	cost of 4 bananas,	2 apples and 3	guavas is						
	a) 10%	b) 12%	c) 16%	d) 18%					
19.	A shopkeeper all	ows 23% com	mission on his	advertised price and still makes a profit of					
	10%. If he gains ₹	56 on one item	, his advertised	price of the item, in ₹, is					
	a) 820	b) 780	c) 790	d) 800					
•		. 1. 1		11					
20.	o .	•		discounts of 10%, 12% and 15% is					
	a) 26.27%	b) 24.76%	c) 9%	d) 11%					
21.	If the cost price o	f 10 articles is	equal to the se	lling price of 8 articles, then gain per cent is					
	a) 10%	b) 8%	c) 50%	d) 25%					
22.	An article is mark	ked 40% above	the cost price a	and a discount of 30% is allowed. What is the					
	gain or loss percen	ntage?							
	a) 10% gain	b) 5%gain	c) 2% loss	d) 12% gain					
23.	A shopkeeper all	lows a discour	nt of 10% to h	is customers and still gains 20%. Find the					
	marked price of the	ne article which	n costs ₹ 450.						
	a) ₹ 600	b) ₹ 540	c) ₹ 660	d) ₹ 580					
0.4	TA71 (' 1 1'			. 1					
<i>2</i> 4.	G	•		ssive discounts of 20% and 15%?					
	a) 35%	b) 32%	c) 34%	d) 30%					



	•			
25.	The cost price of a	n article is 40%	of the selling	price. What per cent of the cost price is the
	selling price?			
	a) 140%	b) 200%	c) 220%	d) 250%
26.	If the selling price	e of 10 articles i	is equal to the	cost price of 11 articles, then the gain per cent
	is			
	a) 10	b) 11	c) 15	d) 25
27.	· ·	-		scount of 5%. If he gives a discount of 6%, he
	earns ₹ 15 less as ₁		_	
	a) ₹ 1,250	b) ₹ 1,400	c) ₹ 1,500	d) ₹ 750
28.	Krishna purchase	d a number of	articles at ₹ 10) for each and the same number for ₹ 14 each.
	-			B each. Then his gain or less per cent is
	a) Loss 8 13%			d) Gain 8 13%
	,	,	,	,
29.				d one at a loss of 20% and the other at a profit
	of 15%. If the sell	ing price of ea	ch horse is the	e same, then their cost prices are respectively
	a) ₹ 10,000 and ₹ 9),500	b) ₹ 11	1,500 and ₹ 8,000
	c) ₹ 12,000 and ₹ 7	7,500	d) ₹ 10	0,500 and ₹ 9,000
30.	Marked price of a	n article is₹2	75. Shopkeepe	r allows a discount of 5% and he gets a profit
	of 4.5%. The actua			9 A
	a) 250	b) 225	c) 215	d) 210
	u) 200	<i>b)</i> 223	C) 210	<i>a)</i> 210
31.	The difference bet	tween a discou	nt of 40% on ₹	500 and two successive discounts of 36%, 4%
	on the same amou	ınt is		
	a) ₹ 0	b) ₹ 2	c) ₹ 1.93	d) ₹ 7.20



32.	If the cost price o	f 15 articles is e	equal to the sell	ing price of 12 articles, find gain %.				
	a) 20	b) 25	c) 18	d) 21				
33.	A man purchase	d some eggs at	3 for ₹ 5 and so	old them at 5 for ₹ 12. Thus he gained ₹ 143 in				
	all. The number of	of eggs he boug	ght is					
	a) 210	b) 200	c) 195	d) 190				
34.	34. X sells two articles for ₹ 4,000 each with no loss and no gain in the interaction. If one was							
	sold at a gain of 2	25% the other is	s sold at a loss o	of				
	a) 25%	b) 18 2/9%	c) 16 2/3%	d) 20%				
25	200/ 1	1						
35.	20% loss on sellir	0.	•	•				
	a) 25%	b) 15%	c) 16 2/3%	d) 16 1/3%				
36.	The cost price of	an article is₹	800. After allo	wing a discount of 10%, a gain of 12.5% was				
	made. Then the r							
	a) ₹ 1,000	•	c) ₹ 1,200	d) ₹ 1,300				
	,	,	,	•				
37.	The selling price	of 10 oranges	is the cost pric	e of 13 oranges. Then the profit percentage is				
	a) 30%	b) 10%	c) 13%	d) 3%				
38.	The marked price	e of a radio is₹	480. The shopl	keeper allows a discount of 10% and gains 8%.				
	If no discount is	allowed, his ga	in per cent wou	ıld be				
	a) 18%	b) 18.5%	c) 20.5%	d) 20%				
20	A	1 1	1 (3.50 1	11.4 11				
39.				sold it allowing 20% discount. If his profit was				
	25%, then the cos	•		N. T. 20				
	a) ₹ 40	b)₹35	c) ₹ 32	d) ₹ 30				



40.	A shopkeeper earns a profit of 12% on selling a book at 10% discount on the printed price.									
	The ratio of the co	st price and th	e printed price	of the book is						
	a) 45 : 56	b) 45:51	c) 47 : 56	d) 47:51						
41.	By selling a bicyc	le of ₹ 2,850, sh	opkeeper gain	s 14%. If the profit is reduced to 8%, then the						
	selling price will b	be								
	a) ₹ 2,600	b) ₹ 2,700	c) ₹ 2,800	d) ₹ 3,000						
42.	A Fruit seller buy	s some orange	s at the rate of	4 for ₹ 10. He sells the whole lot at 9 for ₹ 20.						
	What is his loss or	r gain percent?								
	a) Loss percent 1 19/81% b) Gain percent 1 19/81%									
	c) No loss or no Profit d) Loss percent 2%									
43.	A retailer purcha	sed radio sets	at the rate of	₹ 400 each from a wholesaler. He raised the						
	_			on each set. His profit will be						
	a) 19%	b) 78.4%	c) 22%	d) 19.6%						
44.				. The trader wants to gain 25% after giving a						
	discount of 10%.	•								
	a) ₹ 1000	b) ₹ 1500	c) ₹ 1250	d) ₹ 1200						
45.	A grain dealer ch	neats to the ex	tent of 10% wl	nile buying as well as selling by using false						
	weights. His total	Profit percenta	age is							
	a) 21	b) 23	c) 25	d) 20						
46.	When the price of	f sugar decreas	ses by 10%, a m	nan could buy 1 kg more for ₹ 270. Then, the						
	original price of s	<u> </u>								
	a) ₹ 25	b) ₹ 30	c) ₹ 27	d) ₹ 32						



- 47. A person brought two bicycles for ₹ 1600 and sold the first at 10% profit and the second at 20% profit. If he sold the first at 20% profit and the second at 10% profit, he would get ₹ 5 more. The difference in the cost price of the two bicycles was
 - a) ₹ 25
- b) ₹ 75
- c) ₹ 50
- d) ₹ 40

Answers

1 – a	2 – c	3 –a	4 – a	5 – b	6 – a	7 – c	8 – c	9 – b	10 – d
11 – b	12 – c	13 - d	14 – c	15 – c	16 – a	17 – a	18 – a	19 – d	20 – b
21 – d	22 – c	23 – a	24 – b	25 – d	26 – a	27 – c	28 – d	29 – b	30 – a
31 – d	32 – b	33 - с	34 – c	35 - с	36 - a	37 - a	38 - d	39 - с	40 - a
41 - b	42 - a	43 - d	44 - c	45 - a	46 - b	47 - c			