## **PG-DAC FEB 25 APTITUDE QUESTION BANK**

**Topic: Profit & Loss , Percentage** 


Name: Mansi Patil\_KH PRN No. 250240320059

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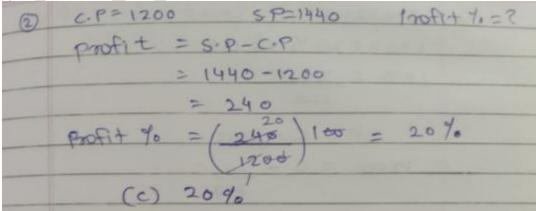
If an article is sold at a loss of 25%, and the selling price is ₹450, find the cost price.

- a) ₹500
- b) ₹550
- c) ₹600
- d) ₹650

0	SP=450 1095 % = 25%.
	1055 is 25% of C.P.
222	1038 = 25 xC
100	100
	S.P=C.P-L
	450 = C = 25 C
23/0.3	100
3 125	45000= 100 C-25C
44	45000= 75C
2054	600 3000 = C
	755
	·. c = 600
-	
	(4) ₹ 600

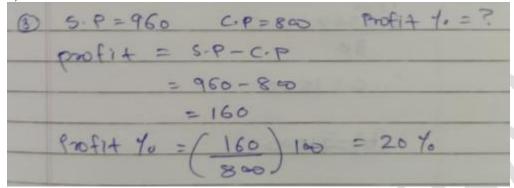
A person bought an item for ₹1200 and sold it for ₹1440. What is the profit percentage?

- a) 10%
- b) 15%
- c) 20%
- d) 25%



If the selling price of an item is ₹960 and the cost price is ₹800, what is the profit percentage?

- a) 15%
- b) 20%
- c) 25%
- d) 30%



A shopkeeper sells a fan at ₹1200 with a loss of 20%. Find the cost price.

- a) ₹1400
- b) ₹1500
- c) ₹1600
- d) ₹1700

(b) 
$$5.8 = 1200$$
 Loss =  $20/.$  (.P = ?.

Loss =  $20 \%$  of C.P.

1000

S.P = C - Loss

1200 = C -  $20 \%$ 

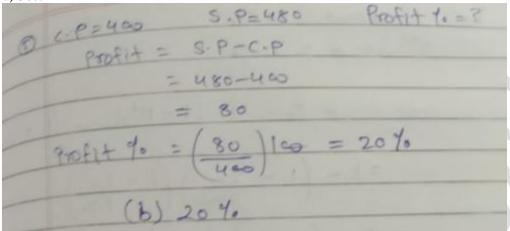
120000 =  $80\%$ 

120000 =  $00\%$ 

120000 =  $00\%$ 

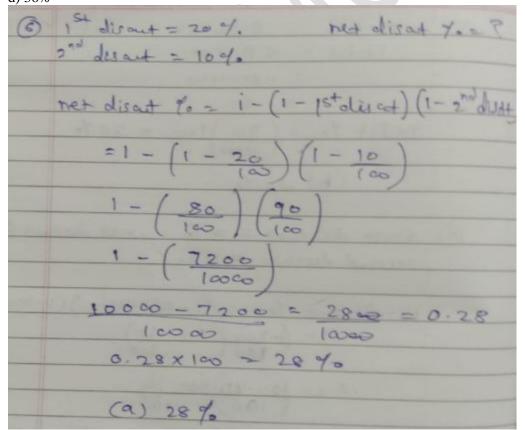
If the cost price of an article is ₹400 and it is sold for ₹480, what is the profit percentage?

- a) 15%
- b) 20%
- c) 25%
- d) 30%



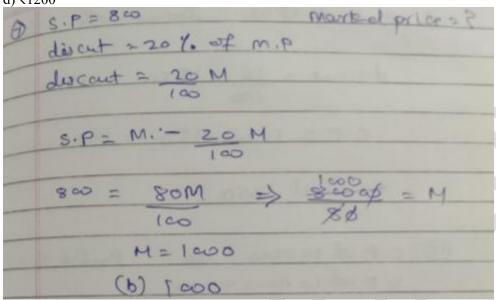
A trader gives two successive discounts of 20% and 10%. Find the net discount percentage.

- a) 28%
- b) 30%
- c) 32%
- d) 36%



A man sold a shirt for ₹800 after giving a 20% discount. Find the marked price.

- a) ₹900
- b) ₹1000
- c) ₹1100
- d) ₹1200



A watch is sold for ₹1800 with a 25% profit. Find the cost price.

- a) ₹1200
- b) ₹1300
- c) ₹1400 1440
- d) ₹1500

8 
$$SP = 1800$$
  $P = 25\%$   $C.P = ?$ 
 $P = 25\%$   $C.$ 
 $P = 25\%$   $C.$ 
 $P = 25\%$   $C.$ 
 $S.P = C + 25\%$   $C.$ 
 $C.P = ?$ 
 $C.P$ 

A shopkeeper marks an article at ₹1500 and allows a 10% discount. Find the selling price.

a) ₹1300

b) ₹1350

c) ₹1400

d) ₹1450

(b) 
$$1350$$
 discout =  $10\%$ .  $5.P=?$ 

discout =  $10 \times 1500 = 150$ 
 $120$ 

(b)  $1350$ 

A merchant buys 10 pens for ₹150 and sells them for ₹200. What is his profit percentage?

- a) 25%
- b) 30%
- c) 33.33%
- d) 40%

A trader gives a 15% discount on an item and still makes a profit of 20%. What is the markup percentage?

- a) 30%
- b) 35%
- c) 40%
- d) 45%

d) 45%	
00	diract = 15 %. Protit = 20 % Mercop 9=24
	5. pigc. p x 20 % 5. P = 85 % of M.P
	5. P = C.P x 120
	100
	S.P = M.P x 85
	100
	C.P x 120 - M.P x 85
	100
	M.P = C.P X 120 = 24 (.P. =4.4176CF
	85 17
	M.P d. = (M.P-C.P) 100
	( c.p)
9-3	a reserved and a second
	= 04 1.41176 C.P-C.P)100
	(-10)
	= (0.41176CP)100
	(c.p)
	M.P/0 - 0.41176×100 = 41.18%
	(c) 40 de

A table is sold for ₹2250 at a 10% profit. What is the cost price?

- a) ₹1800
- b) ₹1900
- c) ₹2000
- d) ₹2100

0	S.P= 2250 Profit 10% C-8=2
- 3- 1	Profit = 10 C
	S.P = C+10 C
	225000 110C
	225cod = C
1.0	2045.45 20
	(c) 2000

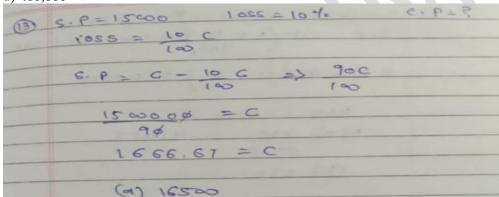
If a shopkeeper wants a profit of 25% on an item that costs ₹800, what should be the selling price?

- a) ₹900
- b) ₹1000
- c) ₹1050
- d) ₹1100

13	C-P=800 Profit = 25 % 8. P=?
and .	Profit = (25) 880 = 200
	S.P = 800 + 200 = 1000
0513	(b) 1000

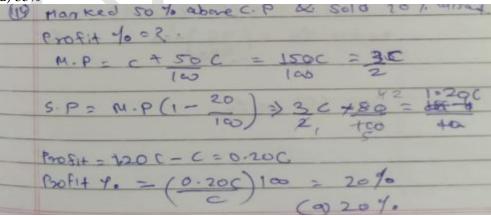
A refrigerator is sold for ₹15,000 at a loss of 10%. Find the cost price.

- a) ₹16,500
- b) ₹17,000
- c) ₹16,000
- d) ₹16,800



An article is marked 50% above the cost price and then sold at a discount of 20%. What is the profit percentage?

- a) 20%
- b) 25%
- c) 30%
- d) 35%



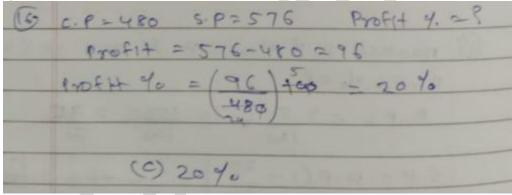
A dealer makes a profit of 12% after allowing a 5% discount. Find the marked price of an article whose cost price is ₹400.

- a) ₹500
- b) ₹510
- c) ₹520
- d) ₹530

13	P=124. disat=5% C.P=400. M.P=2
	S.P= C.P (1+12) = 40 x 1.12 = 448
	S.P = M.P (1-5) = 0.95M
	448 = 0.95M
	M=) 448 = 471.57
	0.95
	(6) 510

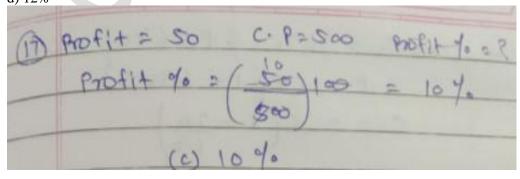
A book is bought for ₹480 and sold for ₹576. What is the profit percentage?

- a) 15%
- b) 18%
- c) 20%
- d) 25%



If a profit of ₹50 is made on an article whose cost price is ₹500, what is the profit percentage?

- a) 8%
- b) 9%
- c) 10%
- d) 12%



A shopkeeper sells a cycle at a 15% profit and the selling price is ₹2300. Find the cost price.

- a) ₹1900
- b) ₹2000
- c) ₹2100
- d) ₹2200

(b) 2000

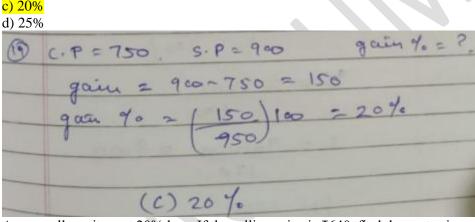
(B) Profit 
$$40 = 154$$
,  $5.9 = 2300$   $6.9 = ?$ 

2300 =  $6 \left( 1 + 15 \right) = 3$  11.50

100

The cost price of an article is ₹750 and it is sold at ₹900. What is the gain percentage?

- a) 15%
- b) 18%
- c) 20%
- d) 25%



A man sells an item at 20% loss. If the selling price is ₹640, find the cost price.

- a) ₹700
- b) ₹750
- c) ₹800
- d) ₹850

$$\frac{(20) \cos 4. = 2040 \quad \text{S.P} = 640 \quad \text{C.P} = ?}{\text{S.P}} = \frac{(.P(1 - 1055 70))}{\text{G40}} = \frac{(.P(1 - 20))}{(.00)}$$

$$\frac{640 - 900}{100}$$

$$\frac{(...)}{800} = \frac{800}{800}$$

A trader sells a mobile phone for ₹9600 at a profit of 20%. Find the cost price.

- a) ₹7500
- b) ₹8000
- c) ₹8200
- d) ₹8500

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(b) 8000

Profit % = 20% (.P=?

C = 9600 cp = 8000

(b) 8000
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A shopkeeper sells an item for ₹500 at a 20% profit. What was the cost price?

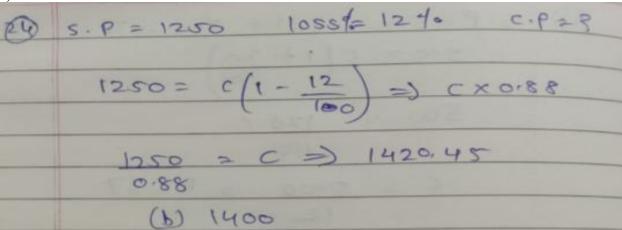
- a) ₹400
- b) ₹410
- c) ₹420
- d) ₹430

A man buys two articles for ₹1500 each. He sells one at a 20% profit and the other at a 10% loss. Find his net profit/loss.

- a) 5% loss
- b) 5% profit
- c) 10% profit
- d) No profit, no loss

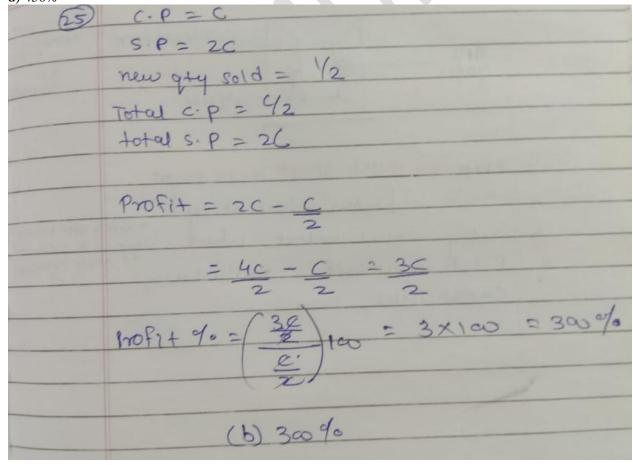
A trader sells an article at ₹1250 with a loss of 12%. Find the cost price.

- a) ₹1300
- b) ₹1400
- c) ₹1450
- d) ₹1500



Find the profit percent earned after selling an article at a doubled rate for half quantity.

- a) 200%
- b) 300%
- c) 400%
- d) 450%



A number is multiplied by 20% of itself, the sum is then doubled. If the final value is 490, find the number.

a) 35

b) 40

c) 45

d) 50

26	number be x.
- 47 11 1	20 to of x = 20 x
-	12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	$\chi\left(\frac{29}{190}\right)\chi = \chi^2$
Party.	
	som darble => 2 x x2 => 2x2
57 T-60	5 5
	490 = 2 x2
	1225
	-2450 =x2 => 1225 = x2
- 474	$\frac{1225}{2450} = x^2 = 1225 = x^2$ $x = \sqrt{1225} = 35$
	(a) 35

An article is sold at 20% less than its cost price. If the selling cost is 50 rupees and the selling cost is 5% of the selling price, find the loss. (Selling cost here is the expense occurred to sell the article, it is levied on the seller)

a) 150 rupees

b) 200 rupees

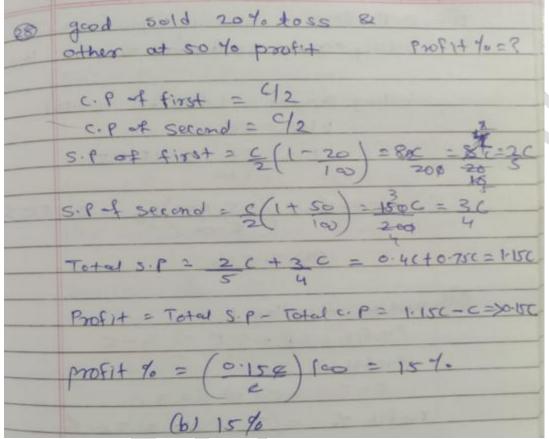
c) 250 rupees

d) 300 rupees

60	sold 20 % less
	S.C = 50 845 % of S.P
40.00	5.p is 5% more
	selling cost = 5 % of s.p
	50 = (5) S.P
	3.P = 5000 = 1000
5.75	5
	5.P = 80 % of C.P
1000	1000 = 80 C.P
	(α)
	C-P=> 100000 = 1250
	80
	1035 = C.P-S.P
	= 1250-1000
	= 250
	(0) 250

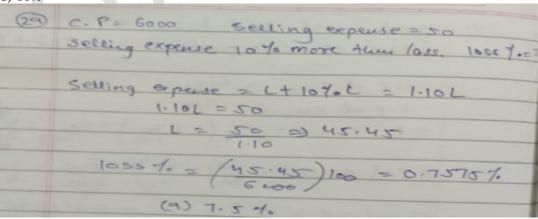
If the seller sells half of his goods at 20% loss and the rest of his goods at 50% profit, find the profit percentage on the entire transaction.

- a) 12% profit
- b) 15% profit
- c) 20% profit
- d) 25% profit



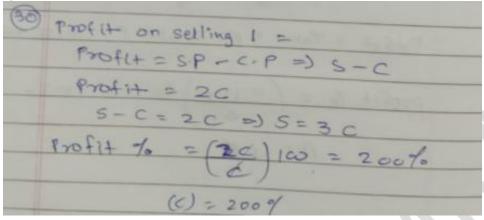
The expense of selling an article, worth rupees 6000, is 50 rupees. If the selling expenses is 10% more than the loss, find the loss percentage.

- a) 7.5% according to 500 rupees
- b) 8.33%
- c) 9.09%
- d) 10%



The profit on selling 1 article is equal to the cost price of 2 such articles. Find the profit percentage.

- a) 100%
- b) 150%
- c) 200%
- d) 225%



The initial price of an article is decreased by 20% but the selling price remains constant. If the initial profit was 500 rupees, find the new profit. It is known the initial profit percent was 20% of cost price a) 800 rupees

- b) 900 rupees
- c) 1000 rupees
- d) 1250 rupees

30	inital price 1 20%. S.P = constat
(3)	inital Profit = 500 Prifit do = 20% of C.P
	Traited BOFH = S-C = 500
	Inital Profit do = 20% of c =020C
	5-C-0.70C
	S = 1.20G
	New C.P= C - 20 90 C => 0.80C
	New Profit = 5- New C.P => 1.20 C-0.80 C
	= D.40C
	new profit = => 0-20 C = 500
	c= 5000 = 1500
	20
	New Profit = 0.40C
	= 0.40×2500 = 1000
	(c) 1000

The price of a pair of slippers is decreased by 10% and the selling price is constant. If the initial profit percentage was equal to 25%, find the new profit percentage.

- a) 35%
- b) 38.8%
- c) 40%
- d) 42%

(32)	Price of pair 4, 10%. S.P. = courted
	inital Profit to = 25 to
- 1	Profit = S-C
	Profit 40 = (S-C) 100 = 25
	S-C = 25 = 0.25
	c (°0
	S-C=0.25C
2 50	S = 1.25C
	new (.p = 0.90C
	new profit = s-new C.P -
	=> 1.25C-0.90C = 0.35C
	New Profit % = 0.35 ( x 100 = 35.88%.
	0.900
	(b) 38.8 %
CD1	

The cost price of an article is doubled, and the selling price is made half. If the initial profit percentage was 500%, find the profit percentage now.

- a) 25%
- b) 50%
- c) 100%
- d) 250%

(33)	inital Protit 90 = 500 %
-	c-Pis double offed s. Pis half
	Initial profit = s-c
	Initial Profit to = (S-C) 100
	500 %
	S-C = 500 = 5
	C 100
	S-C=5C = S=6C
100-11	new c.P = 2C
	new S. P = S/2 = 60 = 30
G3-97 G	new Prefit = 30-20 = 6
	new Prit to = (new Profit) (00
	( new C.P)
	= (4)100 = 50%
	= (q) seo = 50%
	(6).50%

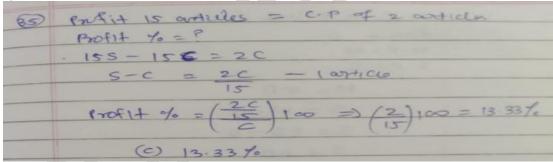
A shopkeeper increases the price of sugar by 25%. By how much a family should decrease their consumption to maintain the regular price?

- a) 25% increase
- b) 25% decrease
- c) 20% increase
- d) 20% decrease

(34)	new price = P+2540 of P.
	2 P + (25) P = ) 125 P
	(100) 100
	initial consmp = 9 now it is g!
	Total = 125 pg'
	mountain px 9 = 125 PB
	B = 125 B' => B=1.250
	B1 = +20 B B = 0.88
	155, 1.52
	9-8 = 9-0.89 = 0.29
	g-g' = 0.2g
	decrease. 20 %
	(d) 20%

The profit on selling 15 articles is equal to the cost price of 2 articles. Find the profit percentage.

- a) 11.11%
- b) 12.22%
- c) 13.33%
- d) 14.44%



40% of a number a is 50% of a number b, find the value of a : b.

- a) 2:3
- b) 1:4
- c) 1:5
- d) 3:5

83	40 % of a = 50 % of b
	1cp 1cp b
	49 = 56
	9 = 5 b 4
	a:b = 5:4

The marked price of an article is 5 times the discount. Find the selling price in terms of discount.

- a) 2.5 times the discount
- b) 3.5 times the discount
- c) 4 times the discount
- d) 5 times the discount

(37)	M.P = 5 times descend.
	discut D
	M,P=M
	S. P = S
	M = 5D
	S = M - D
	S = 5D - D
	S = 4D
	S.P is 4+1 mes of discourt.
	(c) 4 times the discourt

Solve for x; x = 20% of 12% of 120% of 6250.

- a) 270
- b) 225
- c) 200
- d) 180

38	x=20% of 120% of 6250
	120% of 6250 = 120 × 6250 = 1.2× 6250=750
	100
	120/0 of 7500 = 12 × 7500 = 0.12 × 7500 = 900
	100
	20% of 900 = 20 × 900 = 0.2× 900 = 186
	100
	A shopke
	T shopke

purchased an article for 500 rupees. At what price should he mark the article to allow a discount of 35% and still earn 100% profit.

- a) 1539 rupees
- b) 1593 rupees
- c) 1555 rupees
- d) 1599 rupees

60	C-P = 500
(37)	low 1009. Portit ST-
	SP=C.P+100 % of C.P = 500+500=>1000
	5.P=M.P-35 40 4 M.P
	M-035M = 0.65M
	0.65M=1000
	M= 1000 = 1538.46
	0.65
	M = 1539.
	(9) 1539

A is 25% more than b. By what percent is b smaller than a?

- a) 13.33%
- b) 20%
- c) 22%
- d) 30%

(90)	A is 25 Y. more then B.
	A = B+ 25 /0 - F B
	= B+0.25B
	= (,25B
	B/o deercose = (A-B) 100 => (1-258-B) 100
	$= \frac{(0.25 B)}{(1.25 B)} = 6.2 \times 100 = 20 \%$
	(b) 20 %

If the discount is twice the cost price and the marked price is 10000, find the selling price. No profit or loss was made.

- a) 1111.11 rupees
- b) 3333.33 rupees
- c) 5555.55 rupees
- d) 7777.77 rupees

40	M. P = 10000
	0 = 2 C
	S. P = M . P - D S P = C
	- 10000- 26
	C = 10000-20
	3 ( = 10000
	C = 3333.33 S.P = 3333.33
	(b) 3333.33

The cost price of an article is 30% less than the selling price. The discount is 40% of the selling price. If the marked price is 12600 rupees, find the cost price.

- a) 6300 rupees
- b) 10000 rupees
- c) 8400 rupees
- d) 5600 rupees

42	discust = 40% 2 = 0.405
	S. P = M.P - D
	5 = 12600 - 0.405
	S+0.40S = 12600
201	S = 12600 = 9000
	CP=70 40 of S=0.70 × 9000=6300
	(9) 6300

If 33.33% of a number is 20 more than 16.66% of the number, find 120% of the number.

- a) 121
- b) 139
- c) 144
- d) 169

43	33.331. of number: 20 > +6.66% frumber
	33.334.= 1/3 number= 3e
	16.66 40 = 1/6
	$\frac{1}{3}x = \frac{1}{5}x + 26$
	3 6
	2-6x - 120+x
	2-6× = 120+×
	7e = 120
	120% of x = 1.20 x 120 = 144
	(0) 144

Find the number if, 20% of a number is 20 more than 20% of another number 20.

- a) 100
- b) 110
- c) 120
- d) 125

u, 120	
44	20 % of x = 20 % of 20 + 20
	0.20x = (0.20) 20+20
	0.2020 = 4+20
	z = 24/0.20 = 120
	(c) 120

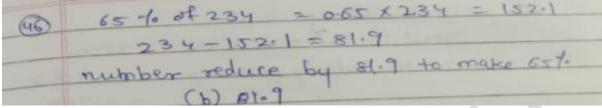
A number if doubled, then tripled and this process is repeated twice. What is the percentage change?

- a) 3500%
- b) 3000%
- c) 2500%
- <u>d) 1750%</u>

43	number = x
- 4	1st doubling = 2x
	1st tripling = 3x2x = 6x
	2 m doubling = 2 x 6x = 12x
	2nd tripling - 3x12x = 36%
	N-1253
	1/2 change = (final - original) 100
	( original)
	$= \frac{36x - x}{2} 100$
	(2)
1-1	=/35X)100
	=(35 x)100
	1. change = 35×100 = 3500 %
	4

By how much should 234 be reduced to make it 65% of itself?

- a) 80.9
- b) 81.9
- c) 82.9
- d) 83.9



What is 90% of 900% of 9000% of 9?

- a) 7290
- b) 729
- c) 6156
- d) 6561

(m) 90 40 of 900 40 of 9000 40 of 9 0.90 × 9.00 × 90.00 × 9 0.90 × 9.00 = 8.10 8.10× 90.00 = 729 729×9 = 6561 (d) 6561

Out of 25 employees of a company, 13 are set of and the salaries of rest of the employees is increased by 24%. Find the total increase of decrease in company's expenditure.

- a) 40.48% decreased
- b) 40.44% increased
- c) 44.48% decreased
- d) 44.84% increased

(us)	Total emp= 25 laid off=13 remain = 12
	sal. 1=24 % initial sed = 5
	inital total sal = 255 of 25 emp.
	after change sal of 12 corp.
	new sal = S+ 0.245 = 1.243
	newtotal sal = 12×1.245 = 14.885
	change = 14.885-255 =-10.125
	% change = (-10.128)100 = -40.48 %
	255)
	40.40 % decreused.
	(a) 40.48% decreased.
5-11	

Zayn bought tickets to concert for Rs. 3500. He wants to sell them at a discount of 15%. What is the discount in Rs.?

- a) Rs.1525
- b) Rs.350
- c) Rs.525
- d) Rs.1050

