

Profit and Loss for Railway Exams

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Profit and Loss for Railway NTPC Stage-I Exams

1) The cost price of 15 articles is equal to the selling price of 20 articles. Then the profit or loss percentage is-

- a) 50
- b) 20
- c) 25
- d) 33.33

2) In Spar hypermarket during Durga puja there was an offer buy 3 get 2 free. But due to lack of sale, an additional discount of 16.67 % was offered. If a person buys this product find the net discount he gets?

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

3) The metallic gauge of a plastic wire dealer expands by 40% in the summer. To counter this he marks up his price 60%. Then find his profit percentage?

- a) 14.28
- b) 28.56
- c) 7.14

d) 3.57

4) Mr. Matthew marks up his goods by 20% and then uses a faulty weight of 300gm in place of 500gm, and then gives a discount of 50% to his customers. What is his profit or loss %?

- a) 100%
- b) 75%
- c) No profit no loss
- d) 25%

5) The cost of 4 markers and 3 pencils is Rs 113 and the cost of 7 markers and 4 pencils is Rs 184. Find the cost of 2 Markers and 1 pencil?

- a) 92
- b) 56
- c) 51
- d) 41

6) A person has bought some candies at the rate of 6 per rupee and the same number at the rate of 4 per rupee. He mistakenly mixed both of them and sold this mixture at the rate of 8 per rupees. In this transaction he incurred a loss of Rs 24. Then find the number of candies bought by him?

- a) 192

Profit and Loss for Railway Exams

b) 144

c) 288

d) 180

7) The profit is 300% of the cost price. If the cost increases by 25% but the selling price remains constant, approximately profit is what percentage of the selling price?

a) 67%

b) 63.5%

c) 68.75%

d) 65%

8) Anuj purchased one dozen pencils for Rs. 60 .Pack them into boxes with three pencils in each box and sold boxes for 18 each. Find her profit percentage?

a) 20 %.

b) 25 %.

c) $16\frac{2}{3}$ %

d) $33\frac{1}{3}$ %

9) The difference in selling price of an article at a profit of 8% and 10% is Rs. 3. What will be the selling price when the profit is 8%?

a) Rs.162

b) RS.165

c) Rs.150

d) Rs.145

10) A wholesaler purchased 14 balloons for Rs.2. How many balloons he must sell for a rupee to get a profit of 40 %?

a) 6

b) 5

c) 4

d) 3

11) Dhanush sold a pen at Rs. 36 with a profit of 20% if it were sold at Rs. 33 than what could be percentage of profit and loss?

a) 10% profit

b) 12 % loss

c) 12 %profit

d) 18 % loss

12) A shopkeeper buys some number of articles at the rate of 12 for Rs.15 and sold them at the rate of 10 for Rs.14. Then the profit / loss percentage is-

a) 16

b) 12

c) 15

d) 18

13) A shopkeeper cheats to the extent of 11 % while buying and selling rice. What is his total gain percentage?

a) 24.46 %

b) 23.21 %

c) 26.24 %

d) 22 %

14) By selling 156 books a shopkeeper incurs a loss is equal to selling price of 12 books. Find his loss percentage?

a) $7\frac{1}{7}$ %

Profit and Loss for Railway Exams

b) $14 \frac{1}{7} \%$

c) $7 \frac{1}{13} \%$

d) $14 \frac{1}{13} \%$

15) When the profit is calculated on cost price it is 25% of cost price. Then find the percent of profit, when calculated on selling price?

a) 25%

b) $23 \frac{1}{2} \%$

c) 20%

d) $16 \frac{2}{3} \%$

16) A shopkeeper sold an article at loss of 7% if he had sold it at Rs. 64 more then he got the profit of 9% the cost price of the article is-

a) 300

b) 400

c) 500

d) 600

17) An article was sold for Rs 3600 at a discount of 10%. Find the selling price if the discount was 15%?

a) 3600

b) 3800

c) 4000

d) 3400

18) Ranjit sold a dozen of watches for Rs59.25 per watch and made a profit of 25%. Find the cost price of the watches?

a) 476

b) 586.8

c) 568.8

d) 566.8

19) A farmer purchased a piece of land for Rs 16.5 lakh and spent Rs. 50,000 on registration. He sold it for Rs 21 lakhs. Find his profit in percentage?

a) 57.12

b) 23.53

c) 48.6

d) 20.56

20) A shopkeeper sold an article at loss of 9 % if he had sold it at 51 rupees more then he got the profit of 8 %, then the selling price of the article if it is sold at 25% profit is-

a) 425

b) 360

c) 400

d) 375

21) A shopkeeper purchased some number of articles at the rate of 4 for Rs.3 and the same number of articles at the rate of 3 Rs.2 and sold all the articles at the rate of 3 for Rs.5 then the profit or loss percentage is-

a) 35.29

b) 135.29

c) 130

d) 235.29

Profit and Loss for Railway Exams

22) A shopkeeper sells some number of articles at the cost price but he uses less weight, he uses 800gm in place of 1000gm then the profit percentage is -

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

23) A shopkeeper losses 20% by selling 60 toffees for Rs 50. How many toffees should he sell for Rs 25 to gain 20%?

- a) 30
- b) 25
- c) 20
- d) 22

24) A shopkeeper sells an item at the profit of 120% of the cost. If the cost price increases by 10% but the selling price remains constant, approximately what percentage of the selling price is the profit?

- a) 50%
- b) 70%
- c) 55 %
- d) 60%

25) In what ratio must water be mixed with milk to gain 10% by selling the mixture at cost price?

- a) 1 : 11
- b) 1 : 10
- c) 10 : 1
- d) 11 : 1

26) A shopkeeper sells an article at the profit of 50% if he had purchased it at 20% less than cost price and sold it at 60 rupees less than cost price in the way he gets the profit of 50%. Find the cost price

- a) 500
- b) 400
- c) 200
- d) 800

27) A shopkeeper purchases two articles for rupees 2100. He sold one at 10% loss and the other at 20% profit and the selling price of both the articles is equal. Find the cost price of the first article?

- a) 1200
- b) 900
- c) 600
- d) 1500

28) Radha sold a home decorator at 8% profit. Had it been sold for Rs. 48 more, the gain would have been 16%. Find the cost price of the purse?

- a) Rs.400
- b) Rs.200
- c) Rs.600
- d) Rs.300

29) Price of 42 bananas is Rs. 63. Find the cost price of 9 dozen bananas?

- a) Rs. 135
- b) Rs. 162
- c) Rs. 84
- d) Rs. 49

Profit and Loss for Railway Exams

30) How much percentage of the cost price should be increased so that the shopkeeper mark his good so that after giving a discount of 10% on marked price he still gain 17% ?

- a) 30%
- b) 27%
- c) 20%
- d) 17%

31) A shopkeeper sold an article at the profit of 20% on selling price, the actual profit percentage

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

32) Apurv bought a mobile at 15 % discount on marked price he should it at 4625 with 25 % profit on marked price. At what price did he buy the mobile?

- a) Rs. 3700
- b) Rs. 3165
- c) Rs.3145
- d) Rs. 3265

33) A shopkeeper sold an article at the profit of 25 % on cost price, the profit percentage on selling price is -

- a) 20
- b) 25
- c) $16 \frac{2}{3}$
- d) 30

34) A shopkeeper sold an article at the profit of 50 % on Cost Price, the 25% of profit percentage on Selling Price is -

- a) 20
- b) $25/3$
- c) $16 \frac{2}{3}$
- d) 30

35) A shopkeeper sold an article at the loss of 25 % on Cost Price, the profit /loss percentage on Selling Price is -

- a) 20
- b) $100/3$
- c) $16 \frac{2}{3}$
- d) 30

36) Total cost price of two books is 658. If one is sold at 20 % profit and other sold at 15% loss there is no profit no loss in whole transaction. Find the selling price of book which is sold at profit?

- a) Rs. 282
- b) Rs. 338. 4
- c) Rs.376
- d) Rs. 319.6

37) The selling price of an article is $\frac{5}{4}$ of cost price, the profit % is -

- a) 20
- b) 25
- c) 10
- d) 30

Profit and Loss for Railway Exams

38) The selling price of an article is $\frac{3}{4}$ of cost price, the loss % is -

- a) 20
- b) 25
- c) 10
- d) 30

39) The selling price of an article is $\frac{11}{4}$ of cost price; if cost price is 100 then amount of profit is -

- a) 200
- b) 250
- c) 175
- d) 300

40) A man sells one fifth of his goods at 50% profit and the remaining at 10% loss. Find his total profit/loss percentage.

- a) No profit/loss
- b) 5%, profit
- c) 10%, profit
- d) 2%, profit

41) The cost price of two articles is same. One article sold at 10% loss while other sold at 10% profit, the net profit and loss in percentage is -

- a) 1%
- b) 0%
- c) 21
- d) 20

42) On an article the profit is 250% of the cost price. If the cost price increases by 25% but the selling price

remains constant, then what is the new profit percentage?

- a) 150
- b) 250
- c) 260
- d) 180

43) A man sells an item for Rs. 2400 at 10% discount. For how much does he need to sell 2 items to gain 5 %?

- a) 5400
- b) 4900
- c) 5200
- d) 5600

44) Rahul sells his half of the products at the rate of 20% discount on marked price and $\frac{1}{4}$ th of the products were sold out 10% on marked price, remaining products were sold out on the marked price, in the way he earned a profit of 75% of cost price per product. Find the total number of products.

- a) 25
- b) 30
- c) 10
- d) Cannot be determine

45) The cost of a radio is Rs. 2400. It is sold at two successive discounts one of which is 15%. If the final price is Rs. 1876.8, find the second discount.

- a) 10%
- b) 8%
- c) 6%

Profit and Loss for Railway Exams

d) 5.5%

46) The difference between the selling prices of an article sold at 4% and 3% profits is 3. Find the cost price of the article.

a) 400

b) 350

c) 300

d) 100

47) The selling price of two articles is 840. One article sold at 40% profit while other sold at 40% Loss, the total cost price is -

a) 1000

b) 2000

c) 1200

d) 1680

48) A shopkeeper bought two articles of a total of RS. 2665. And sold one at a profit of 25% and another at a loss of 20%. If selling price of both the article is same then find difference between the cost prices of both the articles?

a) 550

b) 525

c) 585

d) 520

49) A shopkeeper sold an article at 5% gain if he had sold it at 3 times the original selling price then profit percentage will be-

a) 315

b) 215

c) 300

d) 115

50) A shopkeeper sold an article at 20% gain if he had sold it at $\frac{1}{4}$ times the original selling price then loss percentage will be-

a) 30

b) 40

c) 70

d) 60

Profit and Loss for Railway Exams

ANSWERS

1) Answer: C

It is given that cost price (cost price) of 15 articles is equal to the selling price (Selling price) of 20 articles –

$$\Rightarrow 15 \text{ cost price} = 20 \text{ selling price}$$

$$\Rightarrow \text{Selling price/cost price} = 3/4$$

Here cost price is greater than the selling price so there will be loss by selling the articles

$$\text{Loss \%} = (\text{cost price} - \text{selling price} / \text{cost price}) \times 100$$

$$\text{The loss percentage is} = 1/4 \times 100 = 25\%$$

Hence option C is correct.

2) Answer: B

Buy 3 get 2 free will be equal to a discount of 40%

(The shopkeeper will pay for 5 pieces but give away 2 free hence discount%

$$= 2/5 \times 100 = 40\%$$

Now successive discount formulae if there are two successive discounts of x and y%

$$= -x - y + xy/100$$

$$= -40 - 16.67 + (16.67 \times 40/100) = 50\%$$

3) Answer: A

The dealer actually wants to give 100cm wire but due to expansion ends on giving 140cm wire.

Let us consider 1 cm wire cost him Rs 1, because when customer asks for 100cm wire he gives 140cm due to expansion in gauge. His CP will be RS 140.

But from the customer point of view, will customer give him Rs 140, no because he has asked for 100 cm, he will give the price for 100cm,.

Hence for both the dealer and the customer this will be the agreed price .But dealer needs a profit hence considering this as Cost Price

I.e. he will now set up mark-up % of 60% upon this Price. Hence now he will sell it for Rs 160.

$$\text{Hence profit} = 160 - 140 = \text{Rs } 20.$$

$$\text{Profit \%} = 20/140 \times 100 = 14.28\%$$

4) Answer: C

Let his Cost Price be 100

Then Marked Price = 120

Due to faulty weight his price will be $120 \times 500/300 = 200$.

Upon this he will give 50% discount.

$$\text{Then Selling Price} = 200/2 = 100$$

There is no profit or loss.

5) Answer: C

$$4M + 3P = 113 \text{ ----- (1)}$$

$$7M + 4P = 184 \text{ ----- (2)}$$

Solving (1) & (2)

Cost of Marker = Rs. 20

Cost of Pencil = Rs. 11

Hence 2 markers and 1 pencil cost Rs. 51

Profit and Loss for Railway Exams

6) Answer: C

Let the person brings 48 candies of first type and 48 candies of 2nd type

Total cost of both the candies = $48/6 + 48/4 = \text{Rs } 20$

But if sells them at 8 per rupee then selling price = $96/8 = 12$

Loss = $20 - 12 = \text{Rs } 8$

But in question loss is Rs 24

Which is 3 times the price hence he must have bought 3 times the quantity of candies.

= $96 \times 3 = 288$

7) Answer: C

Let Cost Price = 100

Profit = 300

Selling Price = 400

New Cost Price = 125

Profit = $400 - 125 = 275$

Required profit % = $275/400 \times 100$

= $275/4 = 68.75$

8) Answer: A

Cost price of 12 pencil = Rs. 60

Number of total boxes = $12/3 = 4$

Selling price of 4 boxes = $18 \times 4 = 72$

Profit percentage = $(72 - 60)/60 \times 100$

= $12/60 \times 100 = 20\%$

9) Answer: A

10 % Cost Price – 8% of Cost Price = 3

2% Cost Price = 3

$2/100$ Cost Price = 3

Cost Price = 150

So SP at 8 % Profit = $108 \times 150/100 = \text{Rs. } 162$

10) Answer: B

Cost Price of a balloon = $2/14 = 1/7$ rs

Selling Price = $140/100 \times 1/7 = 1/5$ Rs

So balloons sold for a rupee = 5

11) Answer: A

$120 \text{ Cost Price}/100 = 36$

Cost Price = 30

Selling Price = 33

% profit = $(33-30)/30 \times 100$

= $3/30 \times 100 = 10\% \text{ Profit}$

12) Answer: B

Making the article number of articles same

	Article	price
Cost price	(12	$15) \times 10 = 150$

Selling price	(10	$14) \times 12 = 168$
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Hence cost price = 150 and selling price = 168

Here selling price > cost price so there will be profit on selling the articles

Profit % = $(\text{selling price} - \text{cost price}) / \text{cost price} \times 100$

= $(168 - 150)/150 \times 100 = 12\%$

Profit and Loss for Railway Exams

Hence option B is correct.

13) Answer: B

Total gain percentage = $x + y + \frac{xy}{100}$

Required profit = $11 + 11 + 1.21 = 23.21\%$

14) Answer: A

$156(CP - SP) = 12 SP$

$156 CP = 168 SP$

$CP/SP = 168/156$

$CP/SP = 14/13$

Loss = $\frac{1}{14} \times 100 = \frac{50}{7} = 7 \frac{1}{7}\%$

15) Answer: C

Cost Price = 100

Selling Price = 125

% profit when calculated on SP = $\frac{(125-100)}{125} \times 100$

$= \frac{25}{125} \times 100 = 20\%$

16) Answer: B

Let $100x$ be the cost price of article

If it sold at 7 % loss so the selling price₁ will be = $93x$

And it had sold at 9% profit the selling price₂ will be = $109x$

It is given that the difference of both the selling price = 64 rupees

$$\Rightarrow 109x - 93x = 64$$

$$\Rightarrow 16x = 64$$

$$\Rightarrow x = 4$$

So the cost price will be = $100 \times 4 = 400$ rupees

Hence option B is correct.

17) Answer: D

Let Marked Price = X

$$(90/100) \times X = 3600$$

$$X = 4000$$

Marked Price = 4000

If the discount was 15%

$$\text{Selling price} = (85/100) \times 4000 = 3400$$

18) Answer: C

The cost price of the watch = $\frac{59.25}{125} \times 100 = 47.4$

Now the cost of 12 watches = $12 \times 47.4 = 568.8$

19) Answer: B

Total cost of plot = 16.5 lakhs + 50 thousand = 17 lakhs

Gain = 4 lakhs

Hence profit% = $\frac{4}{17} \times 100 = 23.53\%$

20) Answer: D

Let $100x$ be the cost price of article

If it sold at 9 % loss so the selling price₁ will be = $91x$

And it had sold at 8% profit the selling price₂ will be = $108x$

It is given that the difference of both the selling price = 51 rupees

$$\Rightarrow 108x - 91x = 51$$

$$\Rightarrow 17x = 51$$

$$\Rightarrow x = 3$$

So the cost price will be = $100 \times 3 = 300$ rupees

Profit and Loss for Railway Exams

If this sold at 25% profit then the selling price = 125% of cost price

Selling price = 125% of 300 = 375

Hence option D is correct.

21) Answer: B

Making the article number of articles same

	Article	price
Cost price	(4	$3) \times 3 = 9$
	(3	$2) \times 4 = 8$

Hence total number of articles = 24 and their cost price = 17

Selling price (3 $5) \times 8 = 40$

Hence cost price = 17 and selling price = 40

Here selling price > cost price so there will be profit on selling the articles

Profit % = (selling price - cost price) / cost price $\times 100$

= $(40 - 17) / 17 \times 100 = 135.29\%$

Hence option B is correct.

22) Answer: B

Profit percentage = (difference of weight / false weight) $\times 100$

= $(1000 - 800) / 800 \times 100$

= 25%

Hence option B is correct.

23) Answer: C

SP Of 60 toffees = Rs. 50

SP 1 toffee = $50 / 60 = 5/6$

CP of 1 toffee = $5/6 \times 100/80 = 25/24$

SP When 20 % profit = $25/24 \times 120/100 = 1.25$

So No. of toffees he should sell for Rs. 25 = $25 / 1.25 = 20$

24) Answer: A

CP = 100

SP = $100 + 120 = 220$

If CP increase by 10 % new CP = 110

Profit = $220 - 110 = 110$

Required % = $110 / 220 \times 100 = 50\%$

25) Answer: B

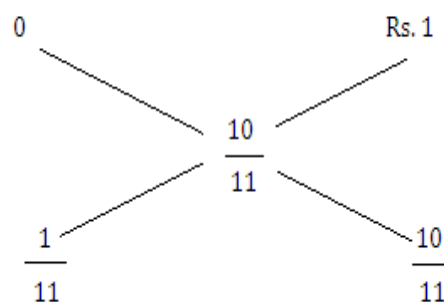
CP of milk = Rs. 1 /liter

SP of 1 liter of mixture = Rs. 1 when profit 10%

C.P of 1 liter mixture = $100 / 110 = \text{Rs. } 10/11$

C.P of 1 litre of water

C.P of 1 litre of milk



Required Ratio = 1 : 10

26) Answer: C

Let the cost price of the article is 100x

If this article is sold at 50% profit so the selling price = $150x$

Profit and Loss for Railway Exams

If the same article is purchased at 20% less so the cost price will be = $80x$ and if this article is sold at 50% profit so the selling price = 150% of $80x = 120x$

It is given that the difference of both the selling price = 60

$$\Rightarrow 150x - 120x = 60$$

$$\Rightarrow 30x = 60$$

$$\Rightarrow x = 2$$

$$100x = 2 \times 100 = 200$$

$$\text{cost price} = 200$$

27) Answer: A

We know that – selling price = $(100 \pm P/L) / 100 \times \text{cost price}$

Let P_1 and P_2 are the cost prices of both the articles and their selling prices are same therefore–

$$C_1 \times 90/100 = C_2 \times 120/100$$

$$C_1 : C_2 = 4:3$$

$$\text{So } C_1 = 4/7 \times 2100 = 1200$$

$$C_2 = 3/7 \times 2100 = 900$$

Hence option A is correct.

28) Answer: C

$$(16 - 8)\% \text{ of CP} = \text{Rs.} 48$$

$$8/100 \times \text{CP} = 48$$

$$\text{CP} = \text{Rs.} 600$$

29) Answer: B

$$\text{Cost price of 1 banana} = 63/42 = \text{Rs. } 1.5$$

$$9 \text{ dozen banana} = 9 \times 12 = 108 \text{ banana}$$

$$\text{Cost price of 108 banana} = 108 \times 1.5 = 162 \text{ Rs.}$$

30) Answer: A

$$\text{CP} = \text{Rs. } 100$$

$$90/(100) \times \text{MP} = 117$$

$$\text{MP} = 130$$

$$\text{So required \%} = 130 - 100 = 30\%$$

31) Answer: A

$$20\% = 1/5$$

It means if selling price = 5 rupees, then profit = 1 rupees

This profit is calculated on the selling price

$$\text{Hence cost price} = \text{Selling Price} - \text{Profit} = 5 - 1 = 4$$

$$\text{So the actual profit percentage} = \text{profit} / \text{cost price} \times 100$$

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

Hence option A is correct.

32) Answer: C

$$125 / 100 \text{ MP} = 4625$$

$$\text{Marked Price} = 3700$$

$$\text{Cost Price of mobile for Apurv} = 85/100 \times 3700 = \text{Rs.} 3145$$

33) Answer: A

$$25\% = 1/4$$

It means if cost price = 4 rupees, then profit = 1 rupees

This profit is calculated on the cost price

$$\text{Hence selling price} = \text{Cost Price} + \text{PROFIT} = 4 + 1 = 5$$

Profit and Loss for Railway Exams

So the profit percentage on selling price = profit / selling price $\times 100$

$$\Rightarrow 1/5 \times 100 = 20\%$$

Hence option A is correct.

34) Answer: B

$$50\% = 1/2$$

It means if cost price = 2 rupees, then profit = 1 rupees

This profit is calculated on the cost price

Hence selling price = Cost Price + Profit = 2+1 = 3

So the profit percentage on selling price = profit / selling price $\times 100$

$$\Rightarrow 1/3 \times 100 = 100/3$$

$$25\% \text{ of profit percentage on selling price} = \frac{1}{4} \times 100/3 = 25/3 = 8.33$$

Hence option B is correct.

35) Answer: B

$$25\% = 1/4$$

It means if cost price = 4 rupees, then loss = 1 rupees

This loss is calculated on the Cost Price

Hence selling price = Cost Price - loss = 4 - 1 = 3

So the loss percentage on Selling Price = loss / selling price $\times 100$

$$\Rightarrow 1/3 \times 100 = 100/3$$

Hence option B is correct.

36) Answer: B

Profit	loss
+20%	-15%
0%	

$$15 \quad 20$$

$$3 \quad :$$

Ratio of CP = 3 : 4

So CP of book which is sold at profit = $3/7 \times 658 = 282$

SP at 20 % profit = $120/100 \times 282 = \text{Rs. } 338.4$

37) Answer: B

Selling price = $5/4$ cost price

Selling price: cost price = 5:4

So the profit = 5 - 4 = 1

Profit % = $1/4 \times 100 = 25\%$

Hence option B is correct.

38) Answer: B

Selling price = $3/4$ cost price

Selling price: cost price = 3:4

So the loss = cost price - selling price = 4 - 3 = 1

Loss % = $1/4 \times 100 = 25\%$

Hence option B is correct.

39) Answer: C

Selling price = $11/4$ cost price

Selling price: cost price = 11:4

Profit and Loss for Railway Exams

Selling price/ cost price = $11/4 \Rightarrow$ selling price/100 = $11/4$

Selling price = $11 \times 25 = 275$

So the profit = selling price-cost price = $275 - 100 = 175$

Hence option C is correct.

40) Answer: D

Let the whole goods be worth x

CP of $1/5$ th of goods = $x/5$

SP of $1/5$ th of goods = $1.5 \times x/5 = 0.3x$

CP of Remaining goods = $4x/5$

SP of them = $0.9 \times 4x/5 = 0.72x$

Total SP = $1.02x$

CP = $1x$

So, profit = 2%

41) Answer: B

Let the cost price of the articles be 100 rupees

The total cost price of both the articles = 200

One sold at 10% loss so the selling price of first article = 90% of 100 = 90 rupee

Another sold at 10 % profit so the selling price of second article = 110% of 100 = 110

The total selling price of both the articles is = $110 + 90 = 200$

The total selling price = total cost price

Hence 0% profit

Option B is correct.

42) Answer: D

Let Cost price = x

Profit = 250% of x = $2.5x$

Selling price = $3.5x$

Increased cost price = 25% of x = $1.25x$

Selling price = $3.50x$

Profit = $2.25x$

Profit % = $(2.25x/1.25) \times 100 = 180\%$

43) Answer: D

Let CP for man be x

SP = $0.9x = 2400$

$x = 8000/3$

For 5% profit, SP = $1.05 \times 8000/3$

= 2800

SP of 2 items = $2800 \times 2 = 5600$

44) Answer: D

There should not be given clear data about cost of price. So we cannot come to conclusion about the price or product details.

45) Answer: B

Cost = 2400

For first discount, price = $0.85 \times 2400 = 2040$

Final price = 1876.8

Discount % = $(2040 - 1876.8) \times 100/2040 = 16320/2040 = 8\%$

46) Answer: C

Let CP be X

Profit and Loss for Railway Exams

At 4% profit, SP = 1.04x

At 3% profit, SP = 1.03x

Difference = 3

0.01x = 3

X = 300

47) Answer: B

The net profit /loss = $(\pm X \pm Y \pm XY/100)$

Here +sign is use for profit, -sign is use for loss

The net profit / loss = $+40 - 40 - (40 \times 40/100) = -16\%$

So the net loss = 16%

We know that selling price = $(100 \pm X) \text{ cost price}/100$

$\Rightarrow \text{selling price} = (100 - 16) \text{ cost price}/100$

$\Rightarrow 1680 = 84 \text{ cost price}/100$

$\Rightarrow \text{cost price} = 2000$

Hence option B is correct.

48) Answer: C

Let the cost price of first article is Rs. X

So, Cost price of another article is (2665-X)

According to question,

$X \times 125\% = (2665 - X) 80\%$

$125X = 2665 \times 80 - 80X$

$205X = 2665 \times 80 = 1040$

$X = 1040$

So, cost price of another article = $2665 - 1040 = 1625$

Required difference = $1625 - 1040 = 585$

49) Answer: B

Let the cost price of the article is 100 rupees

So the original selling price = 105% of 100 = 105 rupees

If he sold it at 3 times the original selling price so the new selling price will be

$\Rightarrow 3 \times 105 = 315 \text{ rupees}$

So the new profit = $315 - 100 = 215 \text{ rupees}$

New profit % = $215/100 \times 100 = 215\%$

Hence option B is correct.

50) Answer: B

Let the cost price of the article is 100 rupees

So the original selling price = 120% of 100 = 120 rupees

If he sold it at 1/4 times the original selling price so the new selling price will be

$\Rightarrow 1/4 \times 120 = 30 \text{ rupees}$

So the loss = $100 - 30 = 70 \text{ rupees}$

Loss % = $70/100 \times 100 = 70\%$

Hence option C is correct.

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