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# Profit and Loss Questions for Bank Clerk Pre Exams.

## Profit and Loss Quiz 12

Directions: Kindly study the following Questions carefully and choose the right answer:

1. Anil makes a profit of 18% on cost price by selling a washing machine for Rs. 5900. If the cost price of the machine is increased by 5% and he wants to earn the same profit, What will be the new profit percent on selling price?

- A. 14.63%      B. 12.25%      C. 15.96%      D. 17.14%      E. None of these

2. Hemant had 1 bicycle and 1 car. He sold the bicycle at a profit of 15% and the car at a loss of 8% and earned a profit of Rs 1150 in total. If he had sold the bicycle for Rs 54000 he would have earned a profit of 20%, find the sum of the selling price of both the items.

- A. Rs 110600      B. Rs 110680      C. Rs 125960      D. Rs 115690      E. None of these

3. After selling a suit for Rs. 1680 a shopkeeper suffers a loss of 16%. If he wants to earn 15% profit after giving the discount of 8%, what will be the marked price?

- A. Rs. 2500      B. Rs. 2000      C. Rs. 1500      D. Rs. 2600      E. None of these

4. A Shopkeeper sells 2 things – bed set and sofa set , both at the same price of Rs 34569. In doing so he manages to gain 10% on bed set while he incurred a loss of 10% in selling sofa set. Then the net percentage profit or loss in whole transaction is?

- A. 11% Profit      B. 11% loss      C. 1% Profit      D. 1% loss      E. None of these

5. The difference between a discount of 25% and two successive discounts of 10% and 20% on a certain bill was Rs. 90. Find the amount of the bill.

- A. Rs. 1500      B. Rs. 300      C. Rs. 3000      D. Data inadequate      E. None of these

6. The marked price of a blanket is Rs. 800 that is 25% more than the cost price. After giving some discounts a shopkeeper earns 12.5% profit. If the ratio of the cost price of blanket to the cost price of bed sheet 4 : 3 and the shopkeeper wants to earn 12.5% profit on bed sheet after given the same discount that he given on the blanket, find the marked price of bed sheet.

A. Rs. 810

B. Rs. 640

C. Rs. 600

D. Rs. 990

E. None of these

**7. The cost price of 2 jackets and 3 jeans is Rs 3800 and the cost price of 3 jackets and 2 jeans is Rs 3700. If a shopkeeper earns 14% profit on a jacket and 10% profit on a jeans, find the ratio of the selling prices of the jacket to that of jeans.**

A. 305 : 396

B. 200 : 261

C. 298 : 325

D. 315 : 426

E. None of these

**8. A shopkeeper marks the marked price 25% more than the cost price that is Rs. 1500. After giving two successive discounts of 12% and x% he losses Rs. 15. Find the value of x.**

A. 12%

B. 9%

C. 10%

D. 15%

E. 6%

**9. A shopkeeper purchased 50 dozen bottles for Rs.3000. Out of these, 60 bottles were broken and could not be sold. At what rate per dozen should he sell the remaining bottles to make a profit of 20%?**

A. Rs. 60

B. Rs. 75

C. Rs. 80

D. Rs. 90

E. None of these

**10. Kohli purchased a batting kit for Rs. 54000. He sold it at a loss of 8 per cent. With this money he again purchased another batting kit and sold it at a profit of 10 per cent. What is his overall loss/profit?**

A. Loss Rs. 657

B. Profit Rs. 567

C. Loss Rs. 648

D. Profit Rs. 648

E. None of these

**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
A	E	A	D	C	C	E	C	C	D

**Explanations:**

**1.** Cost price of the washing machine

$$= \frac{5900}{118} \times 100 = \text{Rs. } 5000$$

$$\text{Profit} = 5900 - 5000 = \text{Rs. } 900$$

$$\text{New cost price} = 5000 \times 105\% = \text{Rs. } 5250$$

$$\text{New selling price} = 5250 + 900 = \text{Rs. } 6150$$

$$\text{Profit \%} = \frac{900}{6150} \times 100 = 14.63\%$$

Hence, option A is correct.

**2.**

$$\text{Cost price of the bicycle} = \frac{54000}{120\%} = \text{Rs } 45000$$

According to the question,

Let the cost price of car = Rs x

$$45000 \times 15\% - x \times 8\% = 1150$$

$$6750 - 1150 = x \times 8\%$$

$$5600 = x \times 8\%$$

$$x = 70000$$

$$\text{Selling price of the bicycle} = 45000 \times 115\% = \text{Rs. } 51750$$

$$\text{Selling price of the car} = 70000 \times 92\% = \text{Rs. } 64400$$

$$\text{Sum} = 51750 + 64400 = \text{Rs. } 116150$$

Hence, option E is correct.

**3.**

$$\text{Cost Price} = \frac{1680}{84} \times 100 = \text{Rs. } 2000.$$

$$\text{Marked price} = 2000 \times \frac{115\%}{92\%} = \text{Rs. } 2500.$$

Hence, option A is correct.

**4.** When two articles are sold at same price but one of them at a profit and another at a loss and the percentage profit is the same as the percentage loss then there is always loss

$$\text{And loss (\%)} = \left( \frac{\text{common gain or loss}}{10} \right)^2$$

$$\Rightarrow \text{here loss \%} = \left( \frac{10}{10} \right)^2 = 1^2 = 1$$

Hence, option (D) is correct.

**5.** Let the bill amount be Rs. x.

The difference between a discount of 25% and two successive discounts of 10% and 20% on a certain bill was Rs. 90.

So, we can write now,

$$[x \times (100 - 25)\%] - [x \times (100 - 10)\% \times (100 - 20)\%] = 90$$

$$\Rightarrow (x \times 75\%) - (x \times 90\% \times 80\%) = 90$$

$$\Rightarrow x \left( \frac{75}{100} - \frac{7200}{10000} \right) = 90$$

$$\Rightarrow x (7500 - 7200) = 90 \times 10000$$

$$\Rightarrow x \times 300 = 900000$$

$$\Rightarrow x = \frac{900000}{300}$$

$$\Rightarrow x = 3000$$

∴ The bill amount was Rs. 3000.

Hence, option (C) is correct.

**6.** Marked price = Rs. 800

$$\text{Cost price} = 800 \div 125 \times 100$$

$$= \text{Rs.} 640$$

$$\text{Profit} = 640 \times 12.5\%$$

$$= \text{Rs.} 80$$

$$\text{Discount} = 800 - 640 - 80$$

$$= \text{Rs.} 80$$

$$\text{Discount \%} = 80 \div 800 \times 100$$

$$= 10\%$$

Ratio of the cost price of blanket to the bed sheet = 4 : 3

$$\text{Cost price of bed sheet} = \frac{640}{4} \times 3 = \text{Rs.} 480$$

$$\text{Marked price of bed sheet} = 480 \times 112.5\% \div 90\% = \text{Rs.} 600$$

Hence, option C is correct.

**7.** Let the cost price of 1 jacket = Rs x, cost price of 1 jeans = Rs y

$$2x + 3y = 3800 \dots 1$$

$$3x + 2y = 3700 \dots 2$$

$$(\text{Equation 1}) \times 3 - (\text{Equation 2}) \times 2$$

$$y = 800$$

$$x = 700$$

Cost price of 1 jacket = Rs 700, cost price of 1 jeans = Rs 800

Ratio of the selling price,

$$= 700 \times 114\% : 800 \times 110\%$$

$$= 399 : 440$$

Hence, option E is correct.

**8.** Let the cost price = Rs. 1500

$$\text{Marked price} = 1500 \times 125\% = 1875$$

After giving two successive discounts of 12% and x% loss = Rs. 15

$$1875 \times (100 - 12)\% \times (100 - x)\% - 1500 = -15$$

$$1875 \times .88 \times (100 - x)\% - 1500 = -15$$

$$1650 \times (100 - x)\% - 1500 = -15$$

$$\frac{[1650 \times (100 - x) - 150000]}{100} = -15$$

$$165000 - 1650x - 150000 = -1500$$

$$15000 + 1500 = 1650x$$

$$16500 = 1650x$$

$$x = 10\%$$

Hence, option C is correct.

**9.** Since there are 12 quantities in a dozen

$$\Rightarrow \text{dozen of bottles broken} = \frac{60}{12} = 5 \text{ dozen}$$

Reqd. amount to gain 20% profit

$$= \text{Rs } 3000 \times \frac{120}{100} = \text{Rs } 3600$$

Since shopkeeper has to gain this amount by selling remaining 45 dozen of bottles

$$\Rightarrow \text{S.P. Per Dozen} = \text{Rs } \frac{3600}{45} = \text{Rs. } 80$$

Hence, option (C) is correct.

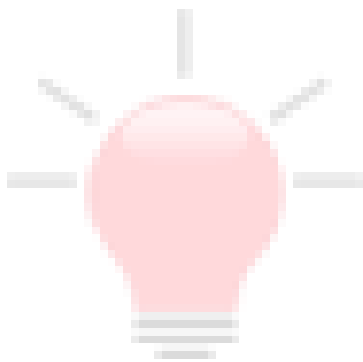
**10.**

$$\text{First selling price} = \frac{54000 \times 92}{100} = \text{Rs. } 49680$$

$$= 49680 \times \frac{110}{100} = \text{Rs. } 54648$$

$$\therefore \text{Profit} = 54648 - 54000 = \text{Rs. } 648$$

Hence, option D is correct.



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