# **Discount**

#### **EXERCISE 7A**

#### For SSC GD & MTS Exams

1. An article, whose list price was ₹ 720, was subject to two successive discounts of 20% and 10% What is the amount (in ₹ ) of discount that a customer would get while purchasing the article?

#### SSC MTS 2/11/2021 (Shift-3)]

- (a) 198
- **(b)** 190.8
- (c) 201.6
- (d) 216
- 2. After allowing a discount of 10% on the marked price of an article, it is sold for ₹450. Had the discount not been given, the profit would have been 25% What id the 50% of the cost price (in ₹) of the article?

#### SSC MTC 2/11/2021 (Shift-2)

- (a) 150
- **(b)** 200
- (c) 175
- (d) 250
- **3.** During festivals, a banner on a shop displays, 'Pay for 3 and get 5. The discount percentage offered is:

#### SSC MTC 02/11/2021 (Shift-1)

- (a)  $166\frac{2}{3}\%$
- (b) 60%
- (c) 40%
- (d)  $66\frac{2}{3}\%$
- 4. A shopkeeper earns 25% profit, if he sells an article at 10% discount on the market price ₹ 2,500. Find his profit. SSC MTS 02/11/2021 (Shift-1)
  - (a) ₹450
- **(b)** ₹400
- (c) ₹375
- (d) ₹350
- **5.** A dealer bought an article at 10% discount on its marked price, and sold it at a price which was 15% above the marked price. The gain percent (correct to the nearest integer) is:

#### SSC MTS 27/10/2021 (Shift-2)

- (a) 33%
- (b) 35%
- (c) 25%
- (d) 28%
- 6. The cost price of an article is ₹ 214. After allowing three successive discounts of 15%, 20% and 10% on its list price, it is sold for ₹153. If it is sold at the list price, then the profit (in ₹) will be;

#### SSC MTS 27/10/2021 (Shift-2)

- (a) 49
- **(b)** 36
- (c) 39
- (d) 45

7. A bookseller buys books at a discount of 25% on the marked price. How much percent discount should he offer so as to gain 20% on the sale?

## SSC MTS 27/10/2021 (Shift-1)

- (a) 25%
- (b) 20%
- (c) 30%
- (d) 10%
- **8.** A single discount equivalent to three successive discount of 10%, 15% and 18% is:

# SSC MTS 22/10/2021 (Shift-3)

- (a) 35.36%
- **(b)** 34.17%
- (c) 37.27%
- (d) 32.68%
- 9. A shopkeeper allows 10% discount on the marked price of an article and still gains 17%. If he gives 15% discount on the marked price, then his profit percent is:

  SSC MTS 22/08/2019 (Shift-2)
  - (a) 12
- **(b)** 10.5
- (c) 12.5
- (d) 10
- **10.** When an article is sold at a discount of 40% on its marked price, the profit is 25%. What is the ratio of the cost price to the marked price of the article?

# SSC MTS 22/08/2019 (Shift-1)

- (a) 12:25
- **(b)** 4:5
- (c) 5:8
- (d) 8:13
- 11. The marked price of an article was 42% above its cost price. If after selling the article, a profit of 20.7% occurs, then find the discount percentage on the marked price of this article? SSC MTS 21/08/2019 (Shift-3)
  - (a) 15.6
- **(b)** 16
- (c) 15
- (d) 14.3
- 12. A person buys an article for ₹ 16. If he had to buy a dozen of articles, then he would have to pay a total amount of ₹ 160. What would be the discount percentage (correct to the nearest integer) on buying a dozen of articles? SSC MTS 21/08/2019 (Shift-1)
  - (a) 10%
- **(b)** 17%
- (c) 12%
- (d) 22%
- **13.** Marked price of an article is ₹ 1500. If  $16\frac{2}{3}\%$

discount is given, then what is the selling price?

SSC MTS 19/08/2019 (Shift-1)

- 2 SSC Maths
  - (a) ₹ 1000
- **(b)** ₹ 1300
- (c) ₹ 1250
- (d) ₹ 1150
- **14.** A person bought a shirt marked ₹ 1000 and a pair of trousers marked ₹ 2000. The discounts offered on the shirt and the pair of trousers were 20% and 50%. Overall, How much discount he was offered?

### SSC MTS 16/08/2019 (Shift-3)

- (a) 25%
- **(b)** 43%
- (c) 45%
- (d) 60%
- **15.** A vegetable seller bought 10 dozens of potatoes for ₹ 120, another 5 dozens for ₹ 50 and another 5 dozens for ₹ 30. He sold the potatoes for ₹ 9 a dozen. How much discount did he overall offer?

#### SSC MTS 16/08/2019 (Shift-1)

- (a) 11.11%
- **(b)** 5%
- (c) 7.5%
- (d) 10%
- **16.** Marked price of a shirt is ₹ 2000. If shopkeeper declares successive discount on shirt of 10% & 25%, the selling price (in ₹ ) of shirt is:

## SSC MTS 14/08/2019 (Shift-3)

- (a) 1350
- **(b)** 1250
- (c) 1650
- (d) 1300
- 17. A customer was offered a discount of 40% on a piece of cloth. On insisting further, the shopkeeper agreed to a further discount of 20% on above. What was the effective discount offered to the customer?

## SSC MTS 14/08/2019 (Shift-2)

- (a) 60%
- **(b)** 48%
- (c) 52%
- (d) 54%
- 18. After allowing a discount of 12.5% shopkeeper makes a profit of 25% on a bag. At what percent higher than the cost price did he mark the bag? (correct to nearest integer): SSC MTS 13/08/2019 (Shift-2)
  - (a) 35%
- (b) 43%
- (c) 41%
- (d) 38%
- 19. A buys an article at ₹ 1800 and sells it after giving two successive discounts of 10% and 20%. What will be the selling price (in ₹ ) of the article?

### SSC MTS 09/08/2019 (Shift-1)

- (a) 1296
- **(b)** 1668
- (c) 1728
- (d) 1336
- 20. Three successive discounts of 20%, 20% and 30% are offered on an article. If the marked price of the article is ₹ 750, then what will be selling price?

#### SSC MTS 08/08/2019 (Shift-2)

- (a) ₹ 326
- **(b)** ₹ 375
- (c) ₹ 348
- (d) ₹ 336

21. After offering a discount of 20% on an article, a trader earned a profit of 20%. If the cost price is ₹ 300, then what will be the selling price of the article after offering a discount of 25%?

## SSC MTS 07/08/2019 (Shift-3)

- (a) ₹ 352.5
- **(b)** ₹ 375.5
- (c) ₹ 432.5
- (d) ₹ 337.5
- **22.** A man sold a watch at a discount of 60% for Rs 1560. What is the marked price of the watch?

#### SSC MTS 07/08/2019 (Shift-1)

- (a) ₹3900
- **(b)** ₹ 3600
- (c) ₹ 3300
- (d) ₹ 3700
- 23. The marked price of an article is ₹ 2800. The selling price of the article is ₹ 2408. Find the discount percentage. SSC MTS 06/08/2019 (Shift-2)
  - (a) 18%
- **(b)** 24%
- (c) 16%
- (d) 14%
- **24.** Marked price and cost price of an article are in ratio 5:4. If the profit earned by selling the article is 12.5%, then what is the discount percentage?

#### SSC MTS 05/08/2019 (Shift-1)

- (a) 12.5
- **(b)** 15
- (c) 8
- (d) 10

# **SOLUTIONS 7A**

1. (c) 
$$20\% = \frac{1}{5} = \frac{4}{5 \text{ MRP}}$$
,

$$10\% = \frac{1}{10} = \frac{9}{10 \text{ MRP}}$$
MRP
$$5 \qquad 4 \rightarrow 9$$

$$10 \leftarrow 10 \qquad 9$$

$$50 \qquad 40 \qquad 36$$

$$D = 14$$

Discount = 
$$\frac{720 \times 14}{50}$$
 = 201.6 ₹

**2.** (b) 
$$10\% = \frac{1}{10}$$

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

CP SP = MRP  

$$4 5 = 500$$
  
 $√ × 100 1 = 100$   
₹ 400

50% of CP = 
$$400 \times \frac{1}{2}$$
 = ₹ 200

3. (c) Discount 
$$\% = \frac{2}{5} \times 100 = 40\%$$

4. (a) 
$$25\% = \frac{1}{4} = \frac{5 \to SP}{4 \to CP}$$
  
 $10\% = \frac{1}{10} = \frac{9}{10} \to MRP$   
MRP SP CP  
 $10 = \frac{1}{10} = \frac{9}{10} \to \frac{1}{10} = \frac{9}{10} \to \frac{1}{10} = \frac{9}{10} \to \frac{9}{10} = \frac{5}{10} = \frac{5}{10} = \frac{45}{10} = \frac{36}{10} = \frac{1}{10} =$ 

$$Profit = 9 \times 50 = 7450$$

5. (d) 
$$10\% = \frac{1}{10} = \frac{9}{10} \rightarrow CP$$
  
 $15\% = \frac{3}{20} = \frac{23}{20} \rightarrow MRP$   
SP MRP CP  
 $10 \leftarrow 10$  9  
 $23$  20  $\rightarrow$  20  
 $230$  200 180

Profit% 
$$=\frac{50}{180} \times 100 = 27.77$$

$$= 28\%$$

6. (b) 
$$15\% = \frac{3}{20} = \frac{17}{20}$$

$$20\% = \frac{1}{5} = \frac{4}{5}$$

$$10\% = \frac{1}{10} = \frac{9}{10}$$

MRP SP

20 17 → 17 → 17

5 ← 5 4 → 4

10 ← 10 ← 10 9

1000 850 680 612 = ₹ 153

$$1 = \frac{153}{612} = 0.25$$
MRP = 0.25 × 1000
$$= ₹ 153$$
Profit = ₹ 250 -214 = 36

7. (d) 
$$25\% = \frac{1}{4} = \frac{3}{4} \rightarrow \text{CP}$$

Discount 
$$\% = \frac{2}{20} \times 100 = 10\%$$

**8.** (c) 
$$10\% = \frac{1}{10} = \frac{9}{10}$$

$$15\% = \frac{3}{20} = \frac{17}{20}, \ 18\% = \frac{9}{50} = \frac{41}{50}$$
MRP SP

	_0	
MRP		SP
10		9
20		17
50		41
10000		6273

Discount 
$$\% = \frac{3727}{10000} \times 100 = 37.27\%$$

9. (b) 
$$10\% = \frac{1}{10} = \frac{9}{10} \rightarrow SP$$

$$17\% = \frac{11}{100} = \frac{11}{100} \to SP$$

New SP 
$$10$$
  $9$   $\rightarrow$  9  $117$   $\leftarrow$  117  $100$   $1170 \times 2$   $1053 \times 2$   $900 \times 2$   $1989$   $2340$   $2106$   $1800$ 

Profit 
$$\% = \frac{189}{1800} \times 100 = 10.5\%$$

**10.** (a) 
$$40\% = \frac{2}{5} = \frac{3}{5} \rightarrow \text{MRP}$$

$$25\% = \frac{1}{4} = \frac{5}{4} \to \frac{SP}{4} \to CP$$

		•	•	, 01	
]	MRP		SP		CP
	5		3	$\rightarrow$	3
	5	$\leftarrow$	5		4
	25		15		12

CP : MRP = 12:25

4 ■ SSC Maths

11. (c) 
$$42\% = \frac{21}{50} = \frac{71}{50} \xrightarrow{\rightarrow} MRP$$
  
 $20.7\% = \frac{20.7}{100} = \frac{120.7}{100} \xrightarrow{\rightarrow} SP$   
 $SP CP MRP$   
 $50 \leftarrow 50 71$   
 $120.7 100 \rightarrow 100$   
 $6035 5000 7100$   
 $D\% = \frac{1065}{7100} \times 100 = 15\%$ 

12. (b) Price of a dozen of articles

$$= ₹ 12 × 16 = ₹ 192$$
CP = 160
Discount% =  $\frac{32}{192} × 100 = 16.84 = 17\%$ 

13. (c) 
$$16\frac{2}{30} = \frac{1}{6} = \frac{5}{6} \xrightarrow{\text{SP}} \text{SP}$$

MRP SP

 $1500 = 6$  5

 $1 = 260$   $\checkmark 250$ 

14. (b) 
$$20\% = \frac{1}{5} = \frac{4}{5} \rightarrow \text{CP}$$
  
 $50\% = \frac{1}{2} \rightarrow \text{CP}$   
 $50\% = \frac{1}{2} \rightarrow \text{MRP}$   
CP MRP CP MRP  
 $1000 = 4$  5  $2000 = 1$  2  
 $1 = 250$  ↓ ×  $250$  ↓ ×  $200$   
Shirt →  $1250$  trouser → ₹  $4000$   
Total CP =  $1000 + 2000 = ₹ 3000$   
Total MRP =  $1250 + 4000 = ₹ 5250$   
Overall Discount% =  $\frac{2250}{5250} \times 100 = 42.85\%$ 

= 43%

15. (d) 10 dozens = ₹ 120  
5 dozens = ₹ 50  
5 dozens = ₹ 30  
20 dozens = ₹ 200 → CP  
1 dozens = ₹ 9  
20 dozens = 9 × 20 = 180 → SP  
Discount% = 
$$\frac{20}{200}$$
 × 100 = 10%

16. (a) 
$$10\% = \frac{1}{10} = \frac{9}{10} \xrightarrow{\rightarrow} SP$$

$$25\% = \frac{1}{4} = \frac{3}{4} \xrightarrow{\rightarrow} SP$$

$$MRP \qquad SP$$

$$10 \qquad 9$$

$$4 \qquad 3$$

$$2000 \times 40 \qquad 27$$

$$1 = 50 \qquad \qquad \downarrow$$
₹ 1350

17. (c) 
$$40\% = \frac{2}{5} = \frac{3}{5} \rightarrow \text{SP}$$
  
 $20\% = \frac{1}{5} = \frac{4}{5} \rightarrow \text{MRP}$   
 $20\% = \frac{1}{5} = \frac{4}{5} \rightarrow \text{MRP}$   
MRP SP  
5 3  
 $\frac{5}{25} = \frac{4}{12}$   
Discount% =  $\frac{13}{25} \times 100 = 52\%$ 

18. (b) 
$$12.5\% = \frac{1}{8} = \frac{7}{8} \xrightarrow{\longrightarrow} SP$$
  
 $25\% = \frac{1}{4} = \frac{5}{4} \xrightarrow{\longrightarrow} SP$   
 $25\% = \frac{1}{4} = \frac{5}{4} \xrightarrow{\longrightarrow} CP$   
MRP SP CP  
 $8 7 \rightarrow 7$   
 $5 \leftarrow 5 4$   
 $40 35 28$   
Required $\% = \frac{12}{28} \times 100 = 42.85$   
 $= 43\%$ 

19. (a) 
$$10\% = \frac{1}{10} = \frac{9}{10} \xrightarrow{\text{NRP}} \text{MRP}$$

$$20\% = \frac{1}{5} = \frac{4}{5} \xrightarrow{\text{NRP}} \text{MRP}$$

$$MRP \qquad SP$$

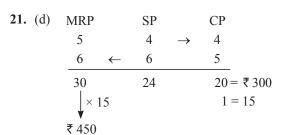
$$10 \qquad 9$$

$$\frac{5}{5} \qquad 4$$

$$1800 = 50 \qquad 36$$

$$1 = 36$$

$$1296$$



SP after 25% discount = 
$$450 \times \frac{3}{4}$$
  
= ₹ 337.50

23. (d) Discount% = 
$$\frac{392}{2800} \times 100 = 14\%$$

24. (d) MRP CP SP

5 4 
$$\rightarrow$$
 4

6  $\leftarrow$  8 9

40 32 36

Discount% =  $\frac{4}{40} \times 100 = 10\%$ 

#### EXERCISE 7B

# For SSC CHSL Exam

- 1. A single discount equivalent to two successive discount of 20% and 10% on the marked price of an article is? SSC CHSL 01/06/2022 (Shift-3)
  - (a) 18%
- **(b)** 28%
- (c) 24%
- (d) 22%
- 2. A bought a toy at a discount of 35%. If he paid ₹ 975, then find the marked price of the toy.

## SSC CHSL 01/06/2022 (Shift-2)

- (a) ₹ 1,550
- **(b)** ₹ 1,650
- (c) ₹ 1,600
- (d) ₹ 1,500

3. Under a sale offer for an item, Mahesh was offered 24% discount on the part of the marked price that was paid in cash, but was charged 1.5% on the part of the marked price paid through a credit card. If Mahesh paid 40% of the marked price in 5 cash and his total final payment was ₹ 6,391, what was the marked price of the item?

#### SSC CHSL 01/06/2022 (Shift-2)

- (a) ₹ 7,200
- **(b)** ₹ 6,900
- (c) ₹ 7,050
- (d) ₹ 7,000
- 4. Under a sale offer, Tanvir was offered a 32% discount on the part of the marked price that was paid in cash, but had to add 1.2% on the part of the marked price paid through a credit card. If Tanvir paid 75% of the marked price in cash and the rest through a credit card, what percentage of the marked price was his total final payment?

  SSC CHSL 31/05/2022 (Shift-3)
  - (a) 76.6%
- **(b)** 75.9%
- (c) 76.1%
- (d) 76.3%
- 5. The marked price of a mobile phone is ₹ 18,000. It is sold with two successive discounts of 25% and 4%. An additional discount of 5% is offered for cash payment. The selling price of the mobile on cash payment is:

# SSC CHSL 31/05/2022 (Shift-2)

- (a) ₹ 12,312
- **(b)** ₹ 12,123
- (c) ₹ 12,132
- (d) ₹ 12,231
- **6.** A 25% profit is made when a discount of 25% is given on the marked price of an item. When the discount is 35%, what will be the profit? (Give your answer correct to the nearest whole number.)

## SSC CHSL 31/05/2022 (Shift-1)

- (a) 13%
- (b) 8%
- (c) 9%
- (d) 11%
- 7. The marked price of a refrigerator is ₹ 60,000. A shopkeeper offers a flat discount of ₹ 12,000 on full cash payment. Further he offers an extra discount of 5% on the marked price to his regular customers. How much does a regular customer have to pay for the refrigerator?

  SSC CHSL 31/05/2022 (Shift-1)
  - (a) ₹45,000
- **(b)** ₹ 48,000
- (c) ₹ 44,000
- (d) ₹47,000
- 8. The marked price of a shirt is ₹ 2,150. Let two successive discounts offered by the store be 10% and 'x%'. If the selling price of the shirt is ₹ 1,505, then calculate the value of 'x'. [Give your answer correct to two decimal places.]

#### SSC CHSL 30/05/2022 (Shift-3)

- (a) 24.44%
- **(b)** 24.24%
- (c) 22.22%
- (d) 22.42%

#### 6 ■ SSC Maths

9. A book is sold for ₹ 1.554 by allowing a discount of 26% on its marked price. Find the marked price of the book:

SSC CHSL 30/05/2022 (Shift-3)

- (a) ₹ 1,854
- (b)  $\ge 2,100$
- (c) ₹ 1,750
- (d) ₹ 2,000
- 10. If a company gives a discount of 20% on the marked price of an article and gains 20% on that particular article, then at what percentage above the cost price did the company mark its goods?

#### SSC CHSL 30/05/2022 (Shift-2)

- (a) 50%
- **(b)** 20%
- (c) 40%
- (d) 25%
- 11. A shoe manufacturing company offers 3 types of discount schemes to its customers: (i) 20% and 12% (ii) 25% and 5% (iii) 30% and 3% at different stages of sales. Find the best scheme for the customer.

#### SSC CHSL 30/05/2022 (Shift-1)

- (a) Only Scheme (iii) (b) Only Scheme (i)
- (c) Only Scheme (ii) (d) Both Scheme (i) and (ii)
- 12. Anil offers his customer a discount of 15% on a T-shirt and he still makes a profit of 25%. What is the actual cost of the T-shirt marked ₹ 500.?

#### SSC MTS 21/08/2019 (Shift-1)

- (a) ₹ 340
- **(b)** ₹ 330
- (c) ₹ 350
- (d) ₹ 360
- 13. A shopkeeper makes a profit of 12.5% after allowing a discount of 10% on the marked price of an article. Find his profit percentage if the article is old at the marked price, allowing no discount.

#### SSC CHSL 27/05/2022 (Shift-3)

- (a) 25%
- (b) 30%
- (c) 22.5%
- (d) 27%
- **14.** The price of a cell phone is ₹ 20,000. On Sundays, the shopkeeper offers a cash discount of ₹ 1,000 on the purchase of the cell phone. Further, if someone purchases it through a credit card, he gives 5% additional discount. If someone is purchasing the cell phone on a Sunday thorough a credit card, then how much does he/she have to pay?

## SSC CHSL 27/05/2022 (Shift-2)

- (a) ₹ 18,350
- **(b)** ₹ 18,900
- (c) ₹ 18,050
- (d) ₹ 18,500
- **15.** The marked price of a mobile phone is ₹ 36,000. A shopkeeper gives a discount of 11% on the marked price. Further, if a customer purchases it through credit card the discount increases by 15%. Pooja purchases it through the credit card. How much does she pay?

## SSC CHSL 27/05/2022 (Shift-1)

- (a) ₹31,000
- **(b)** ₹ 32,000
- (c) ₹30,880
- (d) ₹ 30,600
- **16.** The marked price of a table is ₹ 3,000, which is 25% above the cost price. It is sold at a discount of 20% on the marked price. What is the profit or loss percent?

# SSC CHSL 12/08/2021 (Shift-2)

- (a) Loss, 5%
- **(b)** Profit, 10%
- (c) Profit, 15%
- (d) No profit, no loss
- 17. The marked price of an article is ₹ 1,360. If a shopkeeper sold the article at 15% loss after giving 25% discount, then the cost price of the article is:

#### SSC CHSL 11/08/2021 (Shift-2)

- (a) ₹ 1,200
- **(b)** ₹ 1,600
- (c) ₹ 1,400
- (d) ₹ 15,00
- 18. A marks her goods 25% above the cost price. She sells 25% of the goods at the marked price, 60% at 25% discount and the remaining at 10% discount. What is her overall gain or loss per cent?

## SSC CHSL 10/08/2021 (Shift-3)

- (a) Gain 15.124%
- (b) Loss 18.175%
- (c) Loss 3.125%
- (d) Gain 4.375%
- 19. The marked price of a juicer mixer is ₹ 5500 and three successive discounts of 40%, 30%, and 20% are given on this marked price. The selling price of the juicer SSC CHSL 10/08/2021 (Shift-2) mixer is:
  - (a) 1835
- **(b)** 1868
- (c) 1848
- (d) 1858
- 20. A dealer allows his customers a discount of 35% and still gains 30%. If the cost price of an article is ₹ 950, then what is its marked price (in ₹ )?

#### SSC CHSL 09/08/2021 (Shift-3)

- (a) 1900
- **(b)** 1750
- (c) 1800
- (d) 1500
- 21. A shopkeeper offers successive discounts of 35%, 10% and 6% on every item. At what price (nearest to a rupee) customers can get an item marked for ₹ 1000? SSC CHSL 09/08/2021 (Shift-2)
  - (a) 562
- **(b)** 550
- (c) 450
- (d) 645
- 22. Amit purchased stationery marked for ₹ 8000 at 12% discount and spent ₹ 160 on transportation. He sold the stationery at the marked price. Find his profit SSC CHSL 06/08/2021 (Shift-3) percentage.
  - (a) 10
- (c) 12.5
- (d)  $11\frac{1}{9}$
- 23. A customer availed a 10% discount on the purchase of a table and paid ₹ 4950 for it. How much money

would he have saved if he had bargained to get 12% discount?

- (a) 110
- **(b)** 99
- (c) 108.90
- (d) 660
- 24. An article is listed at ₹ 5,000 and two successive discounts of 12% and 12% are given on it. How much will the seller gain or lose if he gives a single discount of 24%?

## SSC CHSL 05/08/2021 (Shift-3)

- (a) Loss ₹ 72
- **(b)** Loss ₹ 64
- (c) Profit ₹ 64
- (d) Profit ₹ 72
- **25.** Two successive discounts of each of x% on the marked price of an article are equal to a single discount of ₹ 350. If the marked price of the article is ₹800, then the value of x is: SSC CHSL 5/08/2021 (Shift-1)
  - (a) 27.5%
- **(b)** 20%
- (c) 25%
- (d) 22.5%
- **26.** A tractor is sold after allowing three successive discounts of 10%, 5% and 2%. If the marked price of the tractor is ₹ 4,88,000, find its net selling price.

#### SSC CHSL 26/05/2022 (Shift-3)

- (a) ₹5,08,895.2
- **(b)** ₹ 4,49,895.06
- (c) ₹ 4,18,895.45
- (d) ₹4,08,895.2
- 27. The marked price of a study table is ₹ 3,200. It will be offered for ₹ 2,448 after two successive discounts. If the first discount is 10%, the second discount is:

#### SSC CHSL 26/05/2022 (Shift-3)

- (a) 13%
- **(b)** 10%
- (c) 15%
- (d) 18%
- 28. The marked price of a toy was ₹ 4,875. Successive discounts of 28% and 30% were offered on it during a clearance sale. What was the selling price of the toy?

## SSC CHSL 26/05/2022 (Shift-2)

- (a) ₹ 2,457
- **(b)** ₹ 2,047.50
- (c) ₹ 2,057.50
- (d) ₹ 2,467
- 29. X's salary is increased by 20% and then decreased by 20%. What is the change is salary?

#### SSC CHSL 26/05/2022 (Shift-1)

- (a) 4% decrease
- (b) 4% increase
- (c) 2% decrease
- (d) 2% increase
- **30.** After allowing 15% discount, it dealer wishes to sell a machine for ₹ 1,22,700. At what price must the machine be marked? (Consider up to two decimals)

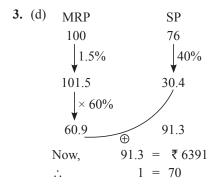
## SSC CHSL 26/05/2022 (Shift-1)

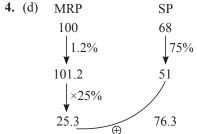
- (a) ₹ 1,22,352.94
- **(b)** ₹ 1,44,352.94
- (c) ₹ 1,48,352.94
- (d) ₹ 1,36,352.94

MRP	SP
5	4
10	9
50	36

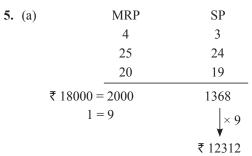
Discount 
$$\% = \frac{14}{50} \times 100 = 28\%$$

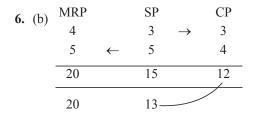
2. (d) MRP SP
$$\begin{array}{ccc}
20 & 13 = \text{ ? } 975 \\
& \downarrow \times 75 & 1 = 75
\end{array}$$
 $\text{? } 1500$ 





Required percentage = 
$$\frac{76.3}{100} \times 100 = 76.3\%$$





$$35\% = \frac{7}{20} = \frac{13}{20} \rightarrow \text{SP}$$
Profit \% = \frac{1}{12} \times 100 = 8.33 = 8\%

7. (a) MRP Discount 
$$60000 12000 + 60000 \times \frac{1}{20} = 15000$$

$$SP = 60000 - 15000 = 745000$$

8. (c) MRP Discount SP  
2150 10% 2150×
$$\frac{9}{10}$$
 = ₹ 1935  
1935 -1505 = ₹ 430  
⇒  $x = \frac{430}{1935} \times 100 = 22.22\%$ 

9. (b) MRP SP  
50 
$$37 = ₹ 1554$$
  
 $\cancel{\times} 42$   $1 = ₹ 42$   
₹ 2100

II<sup>nd</sup> Scheme
MRP SP
100 75
100 95
10000 7125

$\mathrm{III}^{\mathrm{rd}}$	Scheme
MRP	SP
100	70
100	97
10000	6790

The best scheme for the customer is III<sup>rd</sup> scheme

12. (a) MRP SP CP

20 17 → 17

$$5 \leftarrow 5$$
 4

₹ 500 = 100 85 68

1 = 5

▼ 340

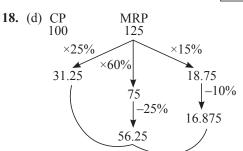
14. (c) CP D SP  
20000 1000 19000  
Discount = 5%  
∴ SP = 
$$19000 \times \frac{95}{100} = ₹ 18050$$

15. (d) MRP SP  
15% 20 17  

$$SP = \frac{17}{20} \times 36000$$

$$SP = ₹30600$$

No profit, No loss



Total SP = ₹ 104.375  
Profit% = 
$$\frac{4.375}{100} \times 100$$
  
= 4.375%

20. (a) MRP SP CP

20 13

13 10

20 13

$$0 = ₹ 950$$
 $0 = $\psi 950$ 
 $0 = $\psi 950$ 
 $0 = $\psi 950$ 
 $0 = $\psi 950$ 

21. (b) MRP SP

20 13

10 9

50 47

₹ 1000 = 
$$\overline{10000}$$
 5499

 $1 = ₹ \frac{1}{10}$   $\sqrt{\frac{1}{10}}$  SP = ₹ 549.90

 $= \boxed{₹ 550}$ 

22. (d) MRP SP 
$$₹ 8000 = 25$$
 22  $↓ × 320$   $₹ 7040$ 

Total 
$$CP = 7040 + 160 = 7200$$
  
 $Profit = 8000 - 7200 = 800$   
 $Profit\% = \frac{800}{7200} \times 100 = 11\frac{1}{9}\%$ 

24. (a) MRP SP

New 25 22

SP 25 22

$$\downarrow$$
 625 484

$$(19 25) \times 25$$
 $\downarrow$  625 484

Loss = 9

$$Loss = \frac{9}{625} \times 5000 = ₹ 72$$

25. (c) 
$$800 \times \frac{x}{100} \times \frac{x}{100} = 450$$
  
 $x^2 = 5625$   
 $x = 75$   
 $100 - 75 = 25\%$   
26. (d) MRP SP

27. (c) MRP D% SP CP 3200 10% 2880 2448 
$$D\% = \frac{432}{2880} \times 100$$

D% = 15%

MRP SP

25 18

10 7

₹ 4875 = 250 126

1 = 19.5

$$\times$$
 19.5

29. (a) 
$$5 6$$
 $5 4$ 
 $25 24$ 
 $6 100 10$ 

30. (b) MRP SP

20 17 = ₹ 122700

$$\downarrow \times 7217.64$$
 1 = ₹ 7217.64

SP = ₹ 144352.94

## **EXERCISE 7C**

#### For SSC CGL & CPO Exams

1. A article is sold for ₹ 288 after successive discounts of 25% and x%. If the marked price of the article is ₹ 480, what is the value of x?

#### SSC CGL 13/06/2019 (Shift-2)

- (a) 20
- **(b)** 16
- (c) 15
- (d) 18
- 2. An article is sold for ₹ 288 after successive discounts of 20% and 25%. What is the marked price of the article?

# SSC CGL 13/06/2019 (Shift-1)

- (a) ₹ 520
- **(b)** ₹ 480
- (c) ₹ 460
- (d) ₹ 500
- 3. An article is sold for ₹ 612 after successive discounts of 25% and 15%. What is the marked price of the article?

## SSC CGL 12/06/2019 (Shift-2)

- (a) ₹ 1000
- **(b)** ₹ 940
- (c) ₹ 980
- (d) ₹ 960
- 4. An article is sold for ₹ 545.40 after successive discounts of 30% and 15%. What is the marked price of the article? SSC CGL 11/06/2019 (Shift-2)
  - (a) ₹ 920
- **(b)** ₹ 960
- (c) ₹ 900
- (d) ₹ 940
- 5. An article is sold for ₹ 535.50 after two successive discounts of 25% and 15%. What is the marked price of the article? [SSC CGL 11/06/2019 (Shift-3)]
  - (a) ₹800
- **(b)** ₹ 830
- (c) ₹820
- (d) ₹ 840
- 6. An article is sold for ₹ 1,680 after two successive discounts of 20% and 16%. What is the marked price of the article? [SSC CGL 11/06/2019 (Shift-2)]
  - (a) ₹ 2,300
- **(b)** ₹ 2,200
- (c) ₹ 2,500
- (d) ₹ 2,400
- 7. An article is sold for ₹ 657.90 after successive discounts of 15% and 10%. What is the marked price of the article? [SSC CGL 11/06/2019 (Shift-1)]
  - (a) ₹ 920
- **(b)** ₹ 860
- (c) ₹ 900
- (d) ₹880
- 8. An article is sold for ₹ 642.60 after successive discounts of 15% and 10%. What is the marked price of the article? [SSC CGL 10/06/2019 (Shift-3)]
  - (a) ₹840
- (b) ₹820
- (c) ₹800
- (d) ₹880

#### **SOLUTIONS 7C**

1. (a) MRP D% SP CP  $480 \times \frac{75}{100} = 360$  288

Discount = 
$$360 - 288 = 72$$

Discount\% = 
$$\frac{72}{360} \times 100 = 20\%$$

MRP = ₹ 960

MRP = ₹ 2500

6. (c) MRP SP
$$\begin{array}{ccc}
5 & 4 \\
\underline{25} & 21 \\
\hline
125 & 84 = ₹ 1680 \\
\downarrow \times 20 & 1 = 20
\end{array}$$

7. (b) MRP SP
$$\begin{array}{ccc}
20 & 17 \\
\hline
10 & 19 \\
\hline
200 & 153 = ₹ 657.90 \\
\downarrow \times 4.3 & 1 = 4.3
\end{array}$$
MRP = ₹ 860

8. (a) MRP SP
$$\begin{array}{ccc}
20 & 17 \\
\hline
10 & 9 \\
\hline
200 & 153 = ₹ 642.60 \\
\downarrow \times 4.2 & 1 = 4.2
\end{array}$$
MRP = ₹ 840