

**Aptitude :: Profit and Loss**

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Exercise : Profit and Loss - General Questions

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1. Alfred buys an old scooter for Rs. 4700 and spends Rs. 800 on its repairs. If he sells the scooter for Rs. 5800, his gain percent is:

- ☐ A $4\frac{4}{7}\%$
- ☐ B $5\frac{5}{11}\%$
- ☐ C 10%
- ☐ D 12%

Answer: Option **B**

Explanation:

Cost Price (C.P.) = Rs. (4700 + 800) = Rs. 5500.

Selling Price (S.P.) = Rs. 5800.

Gain = (S.P.) - (C.P.) = Rs.(5800 - 5500) = Rs. 300.

$$\text{Gain \%} = \left(\frac{300}{5500} \times 100 \right) \% = 5\frac{5}{11}\%$$



2. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:

- ☐ A 15

Ⓑ 16

Ⓒ 18

Ⓓ 25

Answer: Option Ⓑ**Explanation:**Let C.P. of each article be Re. 1 C.P. of x articles = Rs. x .S.P. of x articles = Rs. 20.Profit = Rs. $(20 - x)$.

$$\therefore \left(\frac{20 - x}{x} \times 100 = 25 \right)$$

$$\Rightarrow 2000 - 100x = 25x$$

$$125x = 2000$$

$$\Rightarrow x = 16.$$

Video Explanation: <https://youtu.be/sidqvjUoZxY>

3. If selling price is doubled, the profit triples. Find the profit percent.

Ⓐ $66\frac{2}{3}$

Ⓑ 100

Ⓒ $105\frac{1}{3}$

Ⓓ 120

Answer: Option Ⓑ**Explanation:**Let C.P. be Rs. x and S.P. be Rs. y .

$$\text{Then, } 3(y - x) = (2y - x) \Rightarrow y = 2x.$$

$$\text{Profit} = \text{Rs. } (y - x) = \text{Rs. } (2x - x) = \text{Rs. } x.$$

$$\therefore \text{Profit \%} = \left(\frac{x}{x} \times 100 \right) \% = 100\%$$

Video Explanation: <https://youtu.be/dPzF10mGsWE>

4. In a certain store, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit?

- ☐ A 30%
- ☐ B 70%
- ☐ C 100%
- ☐ D 250%

Answer: Option **B**

Explanation:

Let C.P. = Rs. 100. Then, Profit = Rs. 320, S.P. = Rs. 420.

New C.P. = 125% of Rs. 100 = Rs. 125

New S.P. = Rs. 420.

Profit = Rs. (420 - 125) = Rs. 295.

$$\therefore \text{Required percentage} = \left(\frac{295}{420} \times 100 \right) \% = \frac{1475}{21} \% = 70\% \text{ (approximately).}$$

Video Explanation: <https://youtu.be/bQA8SB8ycbw>



5. A vendor bought toffees at 6 for a rupee. How many for a rupee must he sell to gain 20%?

- ☐ A 3
- ☐ B 4
- ☐ C 5
- ☐ D 6

Answer: Option **C**

Explanation:

C.P. of 6 toffees = Re. 1

S.P. of 6 toffees = 120% of Re. 1 = Rs. $\frac{6}{5}$

For Rs. $\frac{6}{5}$, toffees sold = 6.

$$\text{For Re. 1, toffees sold} = \left(6 \times \frac{5}{6} \right) = 5.$$

Video Explanation: <https://youtu.be/7wKrnZOLKA8>





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