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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**  $5\frac{5}{11}\%$
  - **©** 10%
  - **1**2%

# 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.

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

- **B** 16
- **©** 18
- **①** 25

**Answer:** Option **B** 

### **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.
  - **(A)**  $66\frac{2}{3}$
  - **(B)** 100
  - ©  $105\frac{1}{3}$
  - **1**20

# Answer: Option (B)

#### **Explanation:**

Let C.P. be Rs. x and S.P. be Rs. y.

Then,  $3(y - x) = (2y - x) \implies y = 2x$ .

Profit = Rs. (y - x) = Rs. (2x - x) = Rs. x.

∴ 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%
  - **©** 100%
  - **(1)** 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.

∴ Required percentage =  $\left(\frac{295}{420} \times 100\right)\% = \frac{1475}{21}\% = 70\%$  (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
  - **(1)** 6

# Answer: Option ©

#### **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.

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

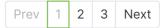
### Video Explanation: https://youtu.be/7wKrnZ0LKA8













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