

I'm not robot!



16. A bookseller sells all his books at a profit of 10%. If he buys a book from the distributor at Rs 200, how much does he sell it for?

**Solution:**

Given profit % = 10% CP = Rs. 200  
 Since  $SP = \{(100 + \text{profit \%}) / 100\} \times CP$   
 $= \{(100 + 10) / 100\} \times 200$   
 $= (110 / 100) \times 200 = \text{Rs. } 220$   
 The bookseller sells the book for Rs. 220.

17. A floweriest buys 100 dozen roses at Rs 2 a dozen. By the time the flowers are delivered, 20 dozen roses are mutilated and are thrown away. At what price should he sell the rest if he needs to make a 20% profit on his purchase?

**Solution:**

Given cost of 1 dozen roses = Rs. 2  
 Number of roses bought by the floweriest = 100 dozens  
 Thus, cost price of 100 dozen roses =  $2 \times 100 = \text{Rs. } 200$   
 Roses left after discarding the mutilated ones = 80 dozens  
 Calculating the price at which the floweriest should sell the 80 dozen roses in order to make a profit of 20%, we have  
 Profit % =  $\{(SP - CP) / CP\} \times 100 = \{(SP - 200) / 200\} \times 100$   
 $40 = SP - 200$   
 $SP = \text{Rs. } 240$   
 Therefore, the SP of the roses should be  $\text{Rs. } 240 / 80 = \text{Rs. } 3$  per dozen.

18. By selling an article for Rs 240, a man makes a profit of 20%. What is his C.P.? What would his profit percent be if he sold the article for Rs 275?

**Solution:**

Let CP = Rs. x SP = Rs. 240  
 Let profit be Rs. P.  
 Now, profit % = 20%  
 Since Profit % =  $\{(Profit / CP) \times 100\}$   
 $20 = (P / x) \times 100$   
 $P = 20x / 100 = x / 5$   
 Profit =  $SP - CP = 240 - x$

<https://byjus.com>

4. It takes 10 days to dig a well 100 m deep. How many more days will be required for digging 200 m deep if the same type of work is done?  
 Solution: More length of work more time required (direct variation)  $x \propto y$   
 $10 \propto 100$   
 $10 \propto 200$   
 $\Rightarrow \frac{10}{100} = \frac{x}{200}$   
 $x = \frac{10 \times 200}{100} = 20$   
 Therefore, 10 more days are required to dig a well of 200 m.  
 5. 100 men had provisions for 200 days. After 5 days, 50 more men joined them. How long will the provisions last?  
 Solution:  

Men	Days
100	200
150	x

 Men and days are in inverse variation  $x \propto \frac{1}{y}$   
 $100 \times 200 = 150 \times x$   
 $x = \frac{100 \times 200}{150} = 133 \frac{1}{3}$   
 6. A car can travel 100 km on 10 litres of petrol. How many litres of petrol will it need to travel 200 km?  
 Solution: More distance more petrol required (direct variation)  $x \propto y$   
 $100 \propto 10$   
 $200 \propto x$   
 $\frac{100}{200} = \frac{10}{x}$   
 $x = \frac{10 \times 200}{100} = 20$   
 7. In a school of 100 girls, there are 200 books. If 50 more girls join the school, how long will the books last?  
 Solution: More girls, less books last (inverse variation)  $x \propto \frac{1}{y}$   
 $100 \propto 200$   
 $150 \propto x$   
 $\frac{100}{150} = \frac{200}{x}$   
 $x = \frac{200 \times 150}{100} = 300$   
 8. A worker is paid Rs. 20 for 5 days work. If the total income of the worker is Rs. 100, for how many days he works?  
 Solution: More wages more days work (direct variation)  $x \propto y$   
 $20 \propto 5$   
 $100 \propto x$   
 $\frac{20}{100} = \frac{5}{x}$   
 $x = \frac{5 \times 100}{20} = 25$   
 9. A train 100 m long is moving at a speed of 100 km/hr. How much time does it take to cross a bridge of length 200 m?  
 Solution: Distance covered by train to cross a bridge = length of train + length of bridge  
 Speed =  $\frac{\text{Distance}}{\text{Time}}$   
 $100 = \frac{100 + 200}{\text{Time}}$   
 $\text{Time} = \frac{300}{100} = 3$  sec

Solution-14:-

we have.

400 eggs cost price = ?

1 dozen eggs  $\rightarrow$  8.40.

$\frac{400}{12}$  dozen eggs  $\rightarrow$  x

[ $\therefore$  1 dozen = 12 eggs]

Let 400 eggs cost price be 'x'

$$x = \frac{400 \times 8.40}{12}$$

$$= \text{Rs. } 280.$$

cost price for one egg =  $\frac{8.40}{12}$

= 70 paise.

cost price for 100 eggs =  $100 \times 70$  paise

= Rs 70.

Profit % =  $\frac{\text{Profit}}{\text{C.P.}} \times 100$

15 =  $\frac{\text{Profit}}{70} \times 100$

$\Rightarrow$  Profit =  $\frac{15 \times 70}{100} = \text{Rs } 10.5$

Selling price for 100 eggs =  $70 + 10.5 = \text{Rs } 80.5$



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