

Question	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:	
Type	multiple_choice	
Option	20	incorrect
Option	19	incorrect
Option	15	incorrect
Option	16	correct
Solution	<p>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).</p> <p>Profit % = $\frac{(20 - x) \times 100}{x} = 25$ $2000 - 100x = 25x$ $125x = 2000$ $x = 16$. Ans</p>	
Marks	1	0

Question	If selling price is doubled, the profit triples. Find the profit percent.	
Type	multiple_choice	
Option	200	incorrect
Option	100	correct
Option	120	incorrect
Option	210	incorrect
Solution	<p>Let C.P. be Rs. x and S.P. be Rs. y. A/Q=> $3(y - x) = (2y - x)$ => $y = 2x$. Profit = Rs. (y - x) = Rs. (2x - x) = Rs. x.</p> <p>Profit % = $\frac{x}{x} \times 100$ =100% Ans.</p>	
Marks	1	0

Question	Amita earns 18% Profit by selling an article. If she increases the price of the article by INR60.50, her gain percentage increases to 29%. If she sells it for INR 530.75, then gain/loss percent is	
Type	multiple_choice	
Option	Gain 3.5%	incorrect
Option	Loss 1.5%	incorrect
Option	Gain 1.5%	incorrect

Option	Loss 3.5%	correct
Solution	<p>Suppose, cost price of the article = x rupees Selling price for 18% profit = (1.18x) rupees Selling price for 29% profit = (1.29x) rupees So, $(1.29x - 1.18x) = 60.50$ Or, $0.11x = 60.50$ Or, $x = (6050 / 100) * (100 / 11)$ Or, $x = 550$ So, when she sells it for 530.75 rupees, the loss = $(550 - 530.75)$ rupees = 19.25 rupees. Thus, percentage loss = $(19.25 / 550) * 100\% = 3.5\%$.</p>	
Marks	1	0

Question	100 apple are bought at the rate of Rs. 350 and sold at the rate of Rs. 48 per dozen. The percentage of profit or loss is:	
Type	multiple_choice	
Option	14(2/7)%	correct
Option	72%	incorrect
Option	20%	incorrect
Option	18%	incorrect
Solution	<p>C.P. of 1 orange = $350/100=3.5$ S.P. of 1 orange = $48/12= 4$ Gain% = $0.5/3.5 \times 100\% = 14(2/7)\%$ Ans</p>	
Marks	1	0

Question	A loan of INR 19125 is to be paid back In two equal half yearly instalments. If the rate of interest is 8% p.a and the interest is compounded half yearly , then how much is each installment(in INR)?	
Type	multiple_choice	
Option	10155	cinorrect
Option	10125	incorrect
Option	10140	correct
Option	10120	incorrect
Solution	Solution will be discussed by Pratik sir Sunday 4PM.	
Marks	1	0

Question	A shopkeeper takes 10% profit on his goods. He lost 20% of his goods during a theft. What is his loss per cent?	
Type	multiple_choice	

Option	15%	incorrect
Option	27%	incorrect
Option	17%	incorrect
Option	12%	correct
Solution	<p>Let the number of goods be 100, and C.P. of each item be 1 \therefore Total C.P. = 100 Profit% on each item = 10% 20% of goods are lost in a theft Number of goods left = 80 Now, S.P. of 1 item = $[(100 + 10)/100] \times 1 = 1.10$ S.P. of 80 items = $80 \times 1.10 = ₹88$ Loss = $100 - 88 = 12$ Loss% = $(12/100) \times 100\% = 12\%$ Thus, the shopkeeper bears 12% loss. Ans</p>	
Marks	1	0

Question	How much percent more than the cost price should a shopkeeper mark his goods so that after allowing a discount of 25% on the marked price, he gains 20%?	
Type	multiple_choice	
Option	60	correct
Option	90	incorrect
Option	50	incorrect
Option	80	incorrect
Solution	<p>Let the cost price of goods be Rs 100. Gain = 20% Therefore, Selling price = Rs 120 Discount = 25% Marked Price = $(100/100-25) \times 120 = \text{Rs. } 160 = 60\% \text{ more}$</p>	
Marks	1	0

Question	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?	
Type	multiple_choice	
Option	80	incorrect
Option	95	incorrect
Option	70	correct
Option	92	incorrect
Solution	<p>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. $(420 - 125) = \text{Rs. } 295$.</p>	

	Required percentage = $(295/420 \times 100)\% = 1475/21 \% = 70\%$ (approx)	
Marks	1	0

Question	Successive discounts of 20% and 10% are equivalent to a single discount of	
Type	multiple_choice	
Option	28	correct
Option	30	incorrect
Option	20	incorrect
Option	25	incorrect
Solution	Equivalent $\Rightarrow -20-10 +(-10*-20)/100=-28\%$ Ans	
Marks	1	0

Question	A product has a marked price of Rs. 100. What would be its selling price if successive discounts of 10%, 15% and 20% are given on it?	
Type	multiple_choice	
Option	80	incorrect
Option	91.20	incorrect
Option	71.20	incorrect
Option	61.20	correct
Solution	Final selling price would be Rs. $100 \times 90\% \times 85\% \times 80\% = \text{Rs. } 61.20$	
Marks	1	0

Question	A dealer offers a discount of 10% on the marked price of an article and still makes a profit of 20%. If its marked price is Rs. 800, then the cost price of the article is:	
Type	multiple_choice	
Option	600	correct
Option	500	incorrect
Option	300	incorrect
Option	400	incorrect
Solution	Selling Price = $MP \times (100 - d)/100 = 800 \times (100-10)/100 = \text{Rs. } 720$ Profit% = 20% Cost Price = $(SP \times 100)/(100 + p\%) = (720 \times 100)/120 = \text{Rs. } 600$ Cost Price of the article is Rs. 600.	
Marks	1	0

Question	An offer of "Buy 5 get 4 free" is given. Discount percent is?	
Type	multiple_choice	
Option	80%	incorrect
Option	16.66%	incorrect
Option	50%	incorrect
Option	44.44%	correct
Solution	Let M.P of 1 good be Rs. x M.P of 9 goods = 9x	

	Discount = Rs. 4x Net Discount % = $\{(4x)/9x\} * 100 = 44.44\%$ Net Discount is equal to 44.44%	
Marks	1	0

Question	On selling 17 balls at Rs. 720, there is a loss equal to the cost price of 5 balls. The cost price of a ball is:	
Type	multiple_choice	
Option	60	correct
Option	40	incorrect
Option	64	incorrect
Option	35	incorrect
Solution	A/Q (C.P. of 17 balls) - (S.P. of 17 balls) = (C.P. of 5 balls) \Rightarrow C.P. of 12 balls = S.P. of 17 balls = Rs.720. \Rightarrow C.P. of 1 ball = Rs. (720/12) = Rs. 60.	
Marks	1	0

Question	A number is divided by 1001 ($=7*11*13$) and it was divided in succession by 7,11 and 13, to obtain the remainders 4,6 and 12 respectively. What would have been the remainder if the number was divided directly by 1001?	
Type	multiple_choice	
Option	828	incorrect
Option	982	incorrect
Option	764	incorrect
Option	970	correct
Solution	Solution will be discussed by Pratik sir Sunday 4PM.	
Marks	1	0

Question	At an election between two candidates A and B, all the eligible candidates had voted, but 4% of votes were not valid. A, the winner got support from 52% of the voters and defeated B by 600 votes. What was the total number of votes?	
Type	multiple_choice	
Option	7500	correct
Option	8000	incorrect
Option	6250	incorrect
Option	6000	incorrect
Solution	Solution will be discussed by Pratik sir Sunday 4PM.	
Marks	1	0

Question	The average rainfall (in mm) in a city during the months, March to October, of a year calculated over a period of ten years is presented in a tabular form below.	
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	<table><tr><th>Months</th><th>Mar</th><th>Apr</th><th>May</th><th>June</th><th>July</th><th>Aug</th><th>Sept</th><th>Oct</th></tr><tr><td>Rainfall</td><td>44</td><td>56</td><td>154</td><td>312</td><td>333</td><td>350</td><td>288</td><td>147</td></tr></table> <p>What is the ratio of the average rainfall for the months having three-figure data to that of the same for the rest?</p>									Months	Mar	Apr	May	June	July	Aug	Sept	Oct	Rainfall	44	56	154	312	333	350	288	147
Months	Mar	Apr	May	June	July	Aug	Sept	Oct																			
Rainfall	44	56	154	312	333	350	288	147																			
Type	multiple_choice																										
Option	66:25						incorrect																				
Option	264:25						incorrect																				
Option	132:25						incorrect																				
Option	99:50						correct																				
Solution	Solution will be discussed by Pratik sir Sunday 4PM.																										
Marks	1						0																				

Question	A room measuring 6m 65cm long and 4m 55cm broad is to be paved with the least number of squared tiles. Then the least number of squared tiles required to cover the floor is?	
Type	multiple_choice	
Option	247	correct
Option	210	incorrect
Option	257	incorrect
Option	187	incorrect
Solution	Solution will be discussed by Pratik sir Sunday 4PM.	
Marks	1	0

Question	If $x = \frac{\sqrt{12} + \sqrt{140}}{\sqrt{12} - \sqrt{140}}$ what is the value of $(x + \frac{1}{x})^2 - (x - \frac{1}{x})^2$?	
Type	multiple_choice	
Option	4	correct
Option	1	incorrect
Option	6	incorrect
Option	2	incorrect
Solution	Solution will be discussed by Pratik sir Sunday 4PM.	
Marks	1	0

Question	<p>There are four letters and four envelopes and exactly one letter is to be put in exactly one envelope with the correct address. If the letters are randomly inserted into the envelopes, then consider the following statements :</p> <p>1. It is possible that exactly one letter goes into an incorrect envelope.</p> <p>2. There are only six ways in which only two letters can go into the correct envelopes.</p> <p>Which of the statements given above is/are correct ?</p>	
Type	multiple_choice	
Option	1 only	incorrect
Option	2 only	correct

Option	Both 1 and 2	incorrect
Option	Neither 1 nor 2	incorrect
Solution	Solution will be discussed by Pratik sir Sunday 4PM.	
Marks	1	0

Question	If x is the remainder when 3^{61284} is divided by 5 and y is the remainder when 4^{96} is divided by 6, then what is the value of $(2x-y)$?	
Type	multiple_choice	
Option	-4	incorrect
Option	-2	correct
Option	4	incorrect
Option	2	incorrect
Solution	Solution will be discussed by Pratik sir Sunday 4PM.	
Marks	1	0