SSC Exam Questions

Sunday, March 12, 2023 4:00 PM



Q.1 The cost price of an article is ₹ 2800. Profit as a percentage of selling price is 20 percent. What is the actual profit (in ₹)?

$$\begin{array}{rcl} (et \ SP = 10D & Profit \rightarrow 20\% \ on \ SP = 20\%, \ then \ Cp = SP - profit\\ actual \ profit \ \% \rightarrow \frac{20}{80} \times 100\% = 25\% \ (on \ CP) = 100 - 20 = 80\\ Actual \ profit = 25\% \ g \ 2800 = 700 \end{array}$$
(CGL TI 2021)

Q.1 A sold a mobile phone to B at a gain of 25% and B sold it to C at a loss of 10%. If C paid ₹5,625 for it, how much did A pay (in ₹) for the phone?

$$\begin{array}{c} cP_{g}A = 100 & sP_{g}A = 125 = cP_{g}B & sP_{g}B = \frac{9}{10} \times 125 = cP_{g}C \\ \frac{9}{10} \times 125 & \longrightarrow & 100 & (1 - \frac{1}{10}) \times 125 \\ 1 & \longrightarrow & \frac{100 \times 10}{9 \times 125} & 1 \\ 5625 & \longrightarrow & \frac{100 \times 10}{9 \times 125}7 & \frac{56265}{5} = 5000 \end{array}$$

$$(Cal T2 2022)$$

Q.2 The sum of the curved surface area and total surface area of a solid cylinder is 2068 cm². If radius of its base is 7 cm, then what is the volume of this cylinder? (use $\pi = 22/7$)

Curved surface area =
$$2\pi rh$$

Total surface area = $2\pi rh + \pi r^{2} \cdot 2$
 $= 2\pi r(r+h)$
 $2-0+6-0 \xrightarrow{Ans} \times 1 \cdot 2060 \text{ cm}^{3}$
 $2-9+8-0 \times 2 \cdot 2480 \text{ cm}^{3}$
 $3-0+8-0 \checkmark^{3} \cdot 3080 \text{ cm}^{3}$
 $2-7+6-6 \times 4 \cdot 2760 \text{ cm}^{3}$
 $2-7+6-6 \times 4 \cdot 2760 \text{ cm}^{3}$
 $2-7+6-6 \times 4 \cdot 2760 \text{ cm}^{3}$
 $2\pi r(r+2h) = 2068$
 $= 2\pi r(r+2h) = 2\pi$

Q.3 If
$$\sin\theta = (9/41)$$
, $0^{\circ} < \theta < 90^{\circ}$ then what is the value of $\cot\theta$?
S Some Curvey through $41/9 = \sqrt{41^2 - 9^2} (40 + 1)^{-1}$
P People b black i proper $1 = \sqrt{1681 - 81} = 1600 + 80 + 11$
h have h hair 5 brushing $-\frac{1}{2}40 = \sqrt{1600} = \sqrt{1600}$
 $= 40$ (1+51 22)

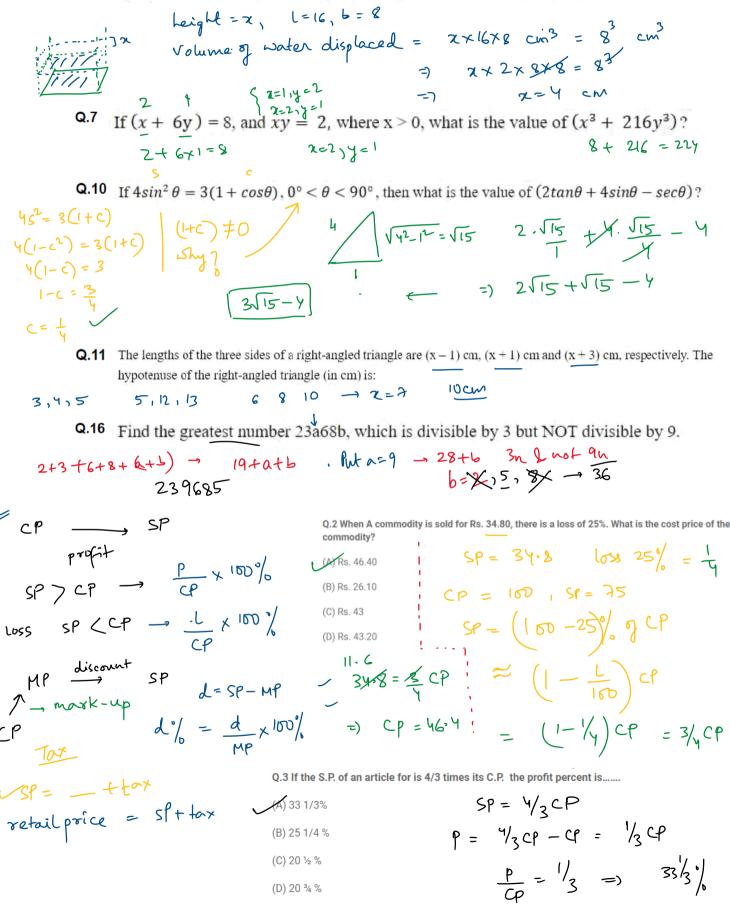
Q.5 A can finish a piece of the work in 16 days and B can finish it in <u>12</u> days. They worked together for 4 days and then A left. B finished the remaining work. For how many total number of days did B work to finish the work completely?

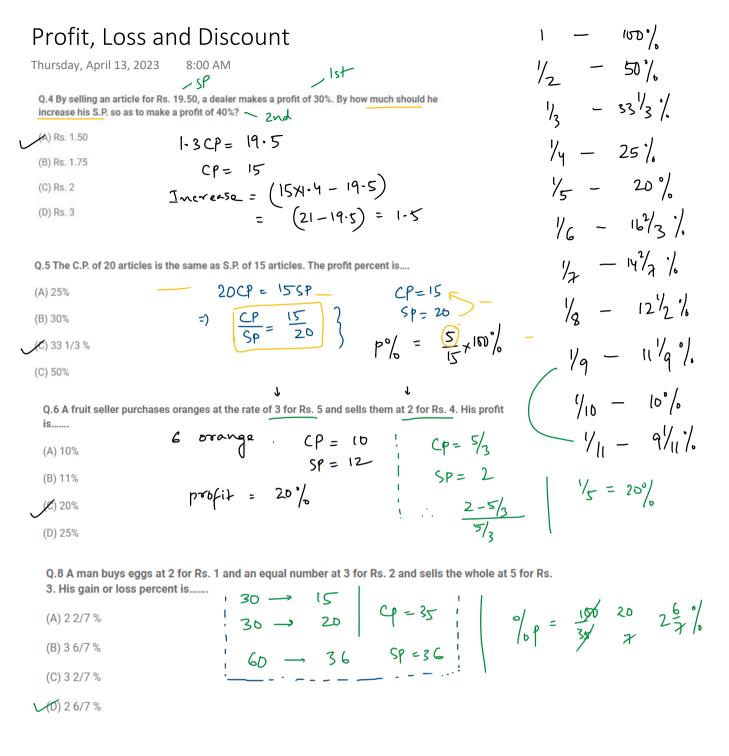
SSC Exam Questions

Sunday, March 12, 2023 5:00 PM

cuboidal

Q.6 A solid cube of side 8 cm is dropped into a rectangular container of length 16 cm, breadth 8 cm and height 15 cm which is partly filled with water. If the cube is completely submerged, then the rise of water level (in cm) is:



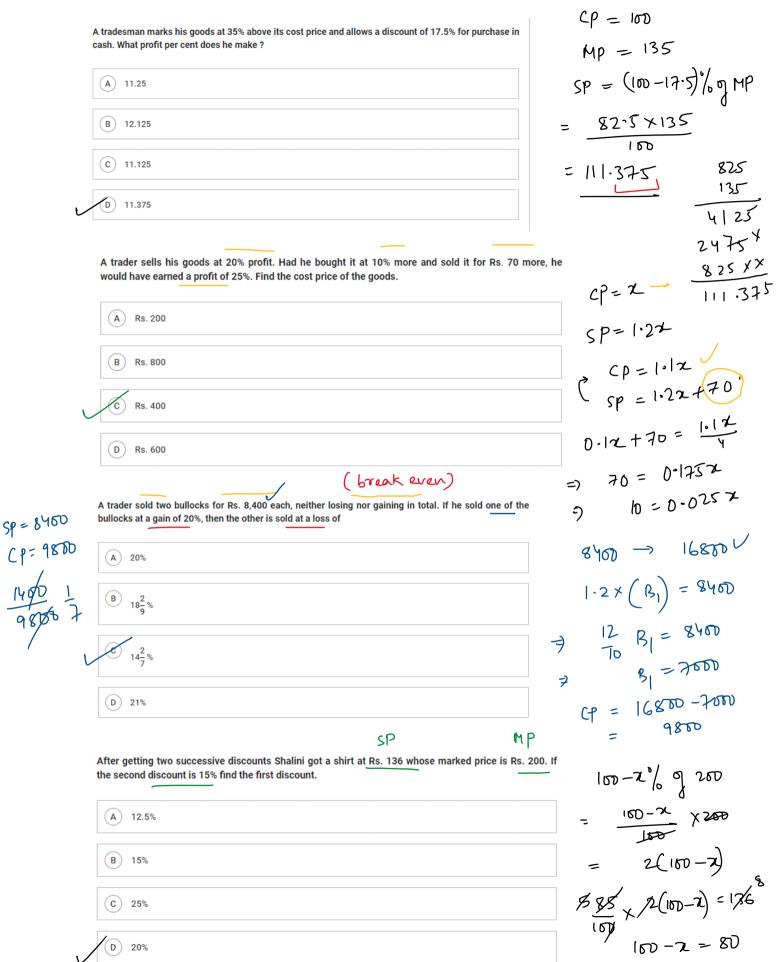


Q.9 A sells a bicycle to B at a profit of 20% and B sells it to C at a profit of 25%. If C pays Rs. 1500,

what did A pay for it?	CP A = 100 /	7
(A) Rs. 825	· · ·	0221 : 021
(B) Rs. 1000	SP A = CP B =	
	SpB = CPC =	1.25×120 = 150
(C) Rs.110 (
(D) Rs. 1125	Q.10 Two mixers and a TV costs Re	s. 7000, while 2 TVs and a mixer cost Rs. 9800. The values of one
	(A) Rs. 2800	4x + 2y = 14000 x + 2y = 9800 x + 2y = 9800
	(B) Rs. 2100	x + 2y = 9850
L	(C) Rs. 4200	
·	(D) Rs. 8400	$3\chi = 4200$
	· ·	7 2 = 1400 - M

Profit, Loss and Discount

Thursday, April 13, 2023 8:00 AM



Z = 2D

Profit, Loss and Discount

Sunday, March 12, 2023 5:00 PM

- 3. By selling 32 oranges for ₹ 30 a man losses 25%. How many oranges should be sold for ₹ 24, so as to gain 20% in the transaction? (1) 16 (2) 24
- (4) 40
- (5) None of these

2/3 24

2/2×24=16

(3) 32

4. The cost price of 24 apples is same as the selling price of 18 apples. The percentage of gain is (1) 12

(1)
$$12\frac{1}{2}\%$$
 (2) $14\frac{2}{3}\%$ (3) $16\frac{2}{3}\%$
(4) $33\frac{1}{3}\%$ (5) None of these

5. A merchant bought some goods worth ₹ 6000 and sold half of them at 12% profit. At what profit per cent should be sell the remaining goods to make and overall profit of 18%? (1) 24 (4) 20 (2) 28 $(3) \cdot 16$

- 6. The equivalent discount to consecutive discounts of 10% and 20% will be (1) 32% (2) 28% (3) 36% (4) 30% (5) None of these
- 9. A shopkeeper sells his goods at 15% discount. The marked price of an article whose selling price is ₹ 629 is (2) ₹ 704 (3) ₹ 700 (1) ₹ 740 (5) None of these (4) ₹ 614
- 10. A dishonest dealer professes to sell his goods at cost price but he uses a weight of 800 g for a kg weight. Find his gain per cent. (3) 23% (1) 35% (2) 56%

(5) None of these (4) 25% _ True weight - False weight × 100% False weight

11. A dishonest dealer sells articles at 10% loss on cost price but uses the weight of 16 g instead of 18 g. What is his profit to loss per cent?

(1)
$$\frac{1}{4}$$
% gain
(3) $3\frac{1}{4}$ % loss
(5) Napp of these

$$10/870 \times 100^{\circ}/_{0}$$

Sf g l orange =
$$\frac{30}{32}$$

Cf - Sf = $\frac{1}{5}$ Cf
 $= \frac{30}{5}$ Cf = $\frac{30}{52}$
 $= \frac{30}{5}$ Cf = $\frac{30}{52}$
 $= \frac{30}{5}$ Cf = $\frac{30}{52}$
 $= \frac{5}{5}$ Cf = $\frac{30}{52}$

$$2YCP = 18 SP$$

$$= \frac{SP}{CP} = \frac{4}{3}$$

$$Profit = \frac{18}{0} = \frac{6000}{000}$$

= 1080
23000 @ 12% profit
 $Profit = 360$
... % Profit = 24
 $\left(a + b - \frac{ab}{100} \right) \%$

$$5 \frac{85 \cdot MP}{150} = 629^{37}$$

On selling
$$800g$$
, he gains
 $\therefore \sqrt[9]{0} \operatorname{profit} = \frac{200}{800} \times 100^{\circ}/_{0}$
 $\operatorname{Sumit}_{144} g = inventary, 100 per unit$

profit

% loss

(4) $5\frac{1}{4}\%$ gain

. .

SP

Profit, Loss and Discount

180 - 140 = 0.12

Sunday, March 12, 2023 5:00 PM

Total inventory = 70 Bought = 7 units @ @ go/unit 100/unit 12. A dishonest dealer sells his goods at 10% loss on cost price and uses 30% less weight. What is his profit or loss per cent? D Sale = 10 units @ 90/ unit $cp = 7 \times 100 = 760$ $SP = 10 \times 90 = 960$ (1) $28\frac{4}{7}$ % loss (2) 28³/₋% gain (3) 23 - % loss $frofit'' = \frac{260}{7} = 28\frac{4}{7} = 28\frac{4}{7}$ (4) 28⁴/₋% gain (5) None of the above CP = (000 1. Suhas sold an item for ₹ 7500 and incurred a loss of 25%. At what price, should he have sold the item to have gained a profit of 25%? (2) ₹ 12500 (1) ₹13800 (4) Can't be determined SP, (3) ₹ 11200 (5) None of these 1.08x+1.18(1000-24 7. A merchant has 1000 kg of sugar, part of which he sells at 8% profit and the rest at 8% profit. He gains 14% on = 1140 the whole. The quantity sold at 18% profit is 1180 - 0.12 = 1140 (2) 600 kg (4) 640 kg -) (1) 500 kg (3) 400 kg 2 = 400 kg (5) None of these 0.082+0.18(1000-2)=140

リ

Sunday, March 12, 2023 5:00 PM

45

Sunday, March 12, 2023 5:00 PM

45

45

ч<u>С</u> ч

С

Sunday, March 12, 2023 5:00 PM