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?

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

$$(Cal T2 2022)$$

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 = $2\pi rh + \pi r^{2} \cdot 2$
= $2\pi r(r+h)$ = 2068
= $2\pi r(r+2h)$ = $2\pi r(r+2h)$
= $2\pi r(r+2h)$ = $2\pi r(r+2h)$

Q.3 If
$$\sin\theta = (9/41)$$
, $0^{\circ} < \theta < 90^{\circ}$ then what is the value of $\cot\theta$?
S Grove Curry t through $41/9 = \sqrt{41^2 - 9^2} (40+1)^2$
P People b black i proper $1 = \sqrt{1681 - 81} = 1600 + 80 + 11$
h have h hair b brushing $-\frac{2}{340} = \sqrt{1600} = 1681$
 $= 40$ (1+51 22)

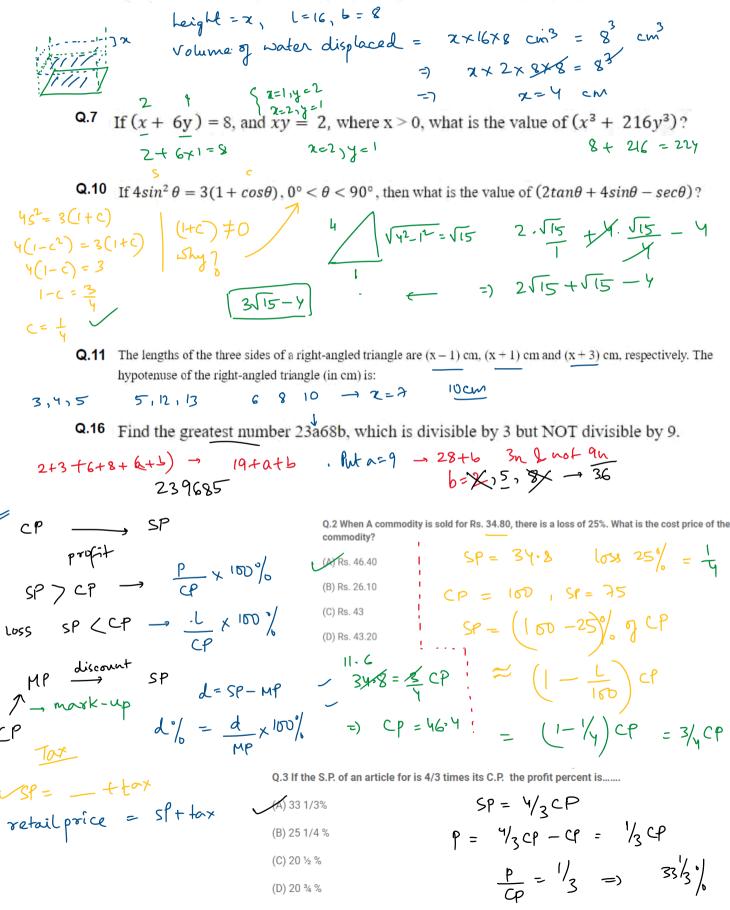
Q.5 A can finish a piece of the work in 16 days and B can finish it in <u>12</u> days. They worked together for 4 days and then A left. B finished the remaining work. For how many total number of days did B work to finish the work completely?

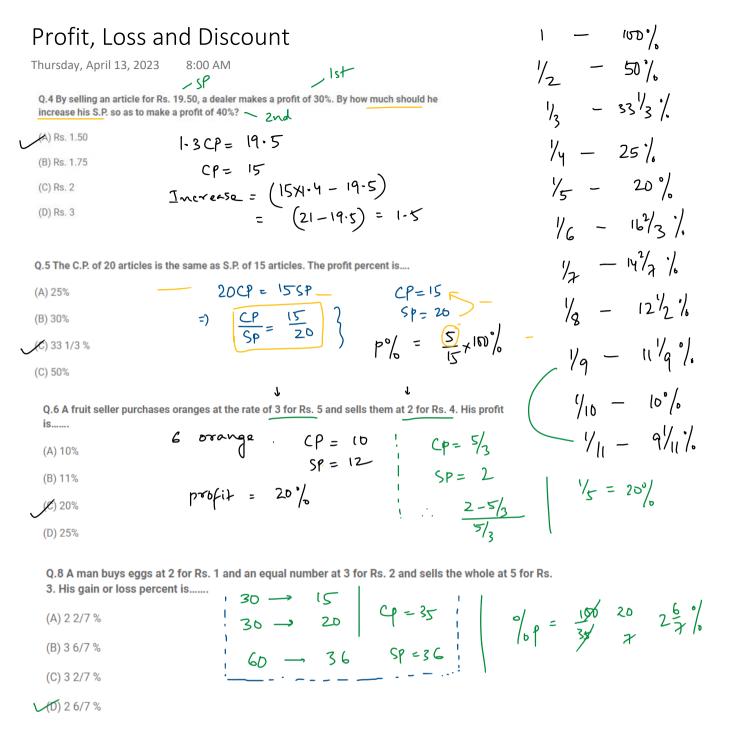
SSC Exam Questions

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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:



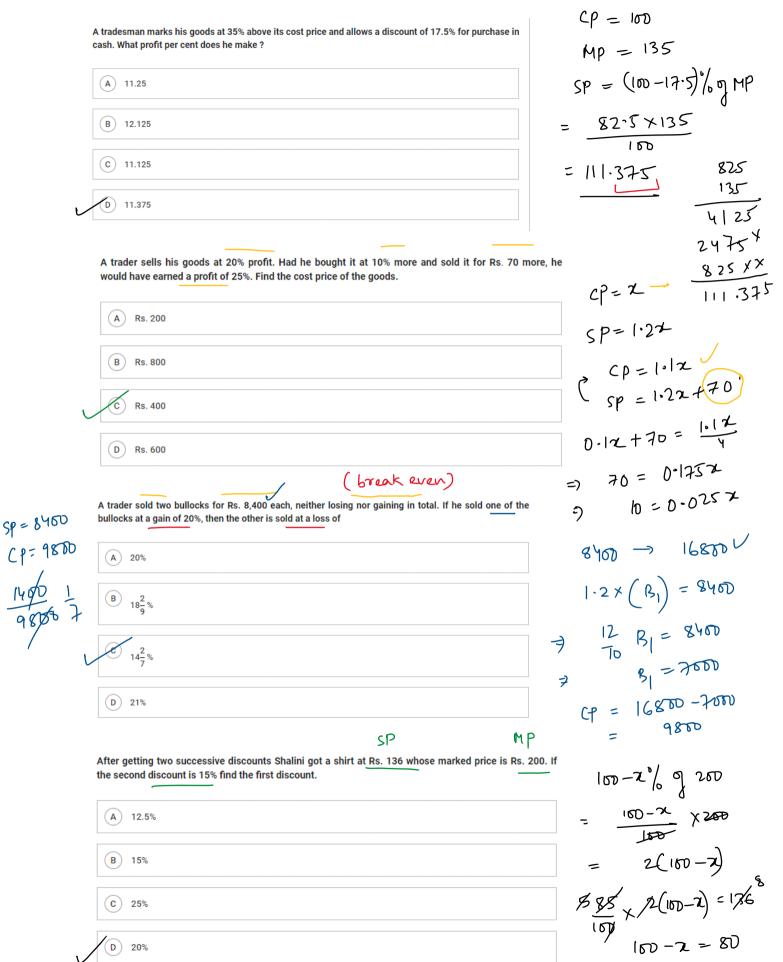


Q.9 A sells a bicycle to B at a profit of 20% and B sells it to C at a profit of 25%. If C pays Rs. 1500,

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

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45

ч<u>С</u> ч

С

45

ч<u>С</u> ч

С

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