

Campus KD Campus Pvt. Ltd PLOT NO. 2 SSI, OPP METRO PILLAR 150, GT KARNAL ROAD, JAHANGIRPURI DELHI: 110033 5 years ago \Rightarrow (7)² - $\left(x^4 - \frac{1}{x^4}\right)^2 = 4$ $\frac{f-5+m-5-s-5}{2} = 35$ $\Rightarrow 49 - \left(x^4 - \frac{1}{x^4}\right)^2 = 4$ $\Rightarrow f + m + s = 105 + 15 = 120$ 3 years ago, $\frac{f-3+m-3}{2} = 46$ $\Rightarrow \left(x^4 - \frac{1}{x^4}\right)^2 = 45$ \Rightarrow f + m = 92 + 6 = 98 $\Rightarrow x^4 - \frac{1}{x^4} = + 3\sqrt{5}$ \Rightarrow s = 120 - 98 = 22 \therefore Percent age of son = 22 years 9. (C) ATQ, $\Rightarrow x^{4} + \frac{1}{x^{4}} + x^{4} - \frac{1}{x^{4}} = 7 + 3\sqrt{5}$ $\frac{\text{CP}}{\text{SP}} = \frac{x}{60}$ $\Rightarrow 2x^4 = 7 + 3\sqrt{5}$ Profit% = 2012. (D) Let the number be. x, x+1, x+2 $\Rightarrow \frac{20}{100} = \left(\frac{\text{SP}}{\text{CP}} - 1\right)$ $x^{2} + (x + 1)^{2} + (x + 2)^{2} = x^{2} + x^{2} + 1 + 2x + x^{2}$ +4+4x $= 3x^2 + 6x + 5$ $\Rightarrow \frac{1}{5} = \frac{60-x}{x}$ On division by 3, we get remainder 2 Only option (D) 1877 give 2 as remainder $\Rightarrow x = 300 - 5x$ when divided by 3. $\Rightarrow 6x = 300$ 13. (C) ATQ, $\Rightarrow x = 50$ 8A5146B is divisible by 88 10. (A) Let initial CP of Ajay = ₹100 \Rightarrow 8A5146B is divisible by 8, 11 40% profit \Rightarrow SP of Ajay = CP of Rakesh 8A5146B is divisible by 8 \Rightarrow 46B is divisible by 8 = ₹140 \Rightarrow B = 4 20% loss \Rightarrow SP of Rakesh = CP of Ajay 8A51464 is divisible by 11 = ₹112 \Rightarrow + 4 - 6 + 4 - 1 + 5 - A + 8 is divisible by 30% profit \Rightarrow SP of Ajay = CP Varun 11 = ₹145.6 \Rightarrow 21 – 7 – A divisible by 11 So, overall earning of Ajay \Rightarrow 14 – A divisible by 11 = ₹(140 - 112 + 145.6) = ₹173.6 So, profit = ₹173.6 – ₹100 = ₹73.6 $\Rightarrow A = 3$ \Rightarrow A × B = 4 × 3 = 12 Profit% = 100 × $\left(\frac{\text{Pofit}}{\text{CP}}\right)$ = 100× $\frac{73.6}{100}$ = 14. (D) $a^n + b^n$ is always divisible by a + b, when nis odd. 73.6% Therefore $15^{23} + 23^{23}$ is always divisible 11. (D) $x + 1 = x^2$ by 15 + 23 = 38 As 38 is a multiple of 19, $15^{23} + 23^{23}$ is $\Rightarrow \frac{x+1}{x} = \frac{x^2}{x}$ divisible by 19. Therefore, then required remainder = 015. (C) Let $CP_1 = ₹x$ $\Rightarrow 1 + \frac{1}{r} = x$ $SP_1 = \overline{1.1x}$ $CP_{2} = ₹0.9x$ $\Rightarrow x - \frac{1}{x} = 1$ $SP_{2}^{2} = ₹1.1 x + 3$ ATQ, Squaring both side. $P = 25\% = \frac{1}{4}$ $\Rightarrow x^2 + \frac{1}{x^2} = 1^2 + 2 = 3$ $\Rightarrow \frac{\mathrm{SP}_2}{\mathrm{CP}_2} = \frac{5}{4} \Rightarrow \frac{1.1x+3}{0.9x} = \frac{5}{4}$ $\Rightarrow x^4 + \frac{1}{x^4} = 3^2 - 2 = 7$ \Rightarrow 4.4*x* + 12 = 4.5*x* $\Rightarrow \left(x^4 + \frac{1}{x^4}\right)^2 - \left(x^4 - \frac{1}{x^4}\right)^2 = 4$ $\Rightarrow x = \frac{12}{0.1} = ₹120$ Ph: 09555108888, 09555208888

















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Mock

Note:- If you face any problem regarding result or marks scored, please contact 9313111777

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