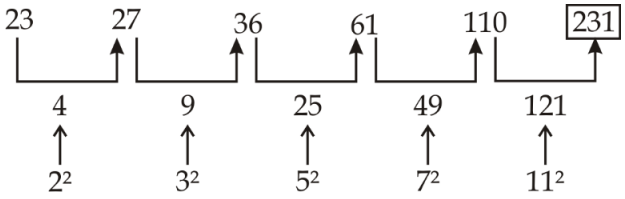
# SBI Clerk Mains 2020 Quantitative Aptitude Practice PDF - (Solutions)

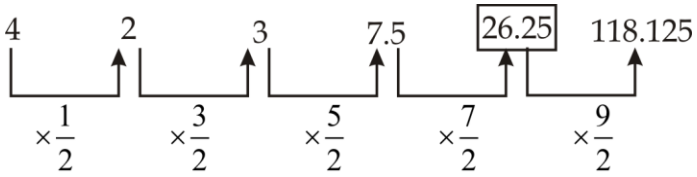
**S1. Ans.(b)**

**Sol.**



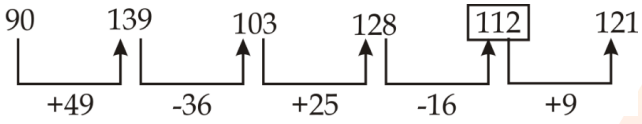

**S2. Ans.(c)**

**Sol.**



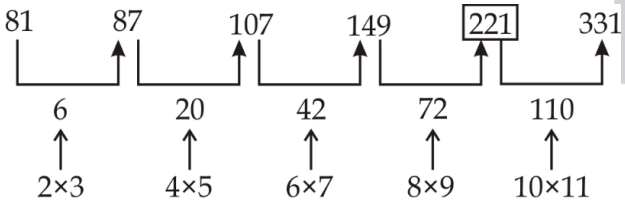

**S3. Ans.(a)**

**Sol.**



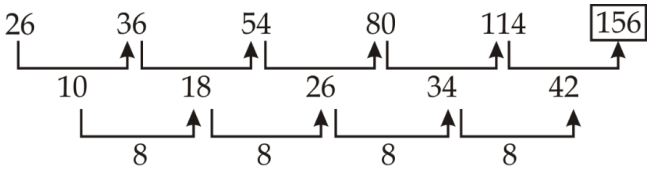

**S4. Ans.(d)**

**Sol.**




**S5. Ans.(e)**

**Sol.**




**S6. Ans.(e)**

**Sol.** Total $A_1$ and $A_3$ tickets sold in Patel stadium $= 2400 \times \frac{25}{100} + 2400 \times \frac{75}{100} \times \frac{5}{9} = 600 + 1{,}000 = 1600$

Total number of $A_1$ and $A_2$ tickets sold in Kaloor stadium $= 1800 \times \frac{20}{100} + 1800 \times \frac{80}{100} \times \frac{7}{12} = 360 + 840 = 1200$

Required % $= \frac{1600-1200}{1200} \times 100 = \frac{400}{1200} \times 100 = 33\frac{1}{3}\%$

**S7. Ans.(d)**

**Sol.** $A_2$ tickets sold in Nehru stadium = $1600 \times \frac{85}{100} \times \frac{9}{17} = 720$

$A_3$ tickets sold in Raipur stadium = $2500 \times \frac{70}{100} \times \frac{4}{7} = 1{,}000$

Required difference = $1000 - 720 = 280$

**S8. Ans.(b)**

**Sol.** $A_3$ tickets sold in Eden and Kaloor stadium together

$= 2000 \times \frac{80}{100} \times \frac{3}{8} + 1800 \times \frac{80}{100} \times \frac{5}{12} = 600 + 600 = 1200$

$A_2$ tickets sold in Patel and Eden stadium together

$= 2400 \times \frac{75}{100} \times \frac{4}{9} + 2000 \times \frac{80}{100} \times \frac{5}{8} = 800 + 1000 = 1800$

Required ratio = $\frac{1200}{1800} = \frac{2}{3}$

**S9. Ans.(c)**

**Sol.** Total number of $A_1$ tickets sold by all five stadiums together

$= 1600 \times \frac{15}{100} + 2400 \times \frac{25}{100} + 2000 \times \frac{20}{100} + 1800 \times \frac{20}{100} + 2500 \times \frac{30}{100}$

$=240 + 600 + 400 + 360 + 750 = 2350$

Required average = $\frac{2350}{5} = 470$

**S10. Ans.(a)**

**Sol.** $A_1$ and $A_2$ tickets sold in Nehru stadium = $1600 \times \frac{15}{100} + 1600 \times \frac{85}{100} \times \frac{9}{17} = 960$

$A_1$ and $A_2$ tickets sold in Raipur stadium = $2500 \times \frac{30}{100} + 2500 \times \frac{70}{100} \times \frac{3}{7} = 1500$

Required % = $\frac{1500-960}{1500} \times 100 = 36\%$

**S11. Ans.(b)**

**Sol.** $518 \div 37 \times 8 + 211 \approx ? + (16)^2$

$112 + 211 - 256 \approx ?$

$? \approx 67$

**S12. Ans.(a)**

**Sol.** $3 \times 40 + \frac{4}{9} \times 2160 - \frac{90}{100} \times 550 \approx ?$

$? \approx 120 + 960 - 495$

$? \approx 585$

**S13. Ans.(d)**

**Sol.** $\frac{25}{100} \times 4200 - ? \approx \left(\frac{112}{100} \times 25\right)^2$

$1050 - ? \approx 784$

$? \approx 266$

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**S14. Ans.(d)**

**Sol.** $\sqrt{2916}+\frac{32}{100}\times 250-?\approx\frac{290}{100}\times 30$

$?\approx 54+80-87$

$?\approx 47$

**S15. Ans.(e)**

**Sol.** $\left(\sqrt{2}\right)^{?}\times 400\sqrt{2}\approx 4^4\times 5^2$

$\left(\sqrt{2}\right)^{?}\approx\frac{4^4\times 25}{400\times\sqrt{2}}$

$\left(\sqrt{2}\right)^{?}\approx\frac{\left(\sqrt{2}\right)^{16}}{\left(\sqrt{2}\right)^{8+1}}$

$\left(\sqrt{2}\right)^{?}\approx\left(\sqrt{2}\right)^{7}$

$?\approx 7$

**S16. Ans.(c)**

**Sol.** Let the average expenditure per head = x

No. of students = 11

Now according to question

$11x+45=15(x-13)$

$11x+45=15x-195$

$4x=240\Rightarrow x=60$

Original expenditure of mess = $11x=11\times 60=Rs.660$

**S17. Ans.(c)**

**Sol.** $\frac{1}{(100+R_1T_1)\%}:\frac{1}{(100+R_2T_2)\%}$

$\frac{1}{(100+80)}:\frac{1}{(100+60)}$

$\frac{1}{180}:\frac{1}{160}=16:18=8:9$

Now, 68000 is to be distributed in the ratio of 8 : 9

So, amounts are = Rs. 32000, Rs. 36000

**S18. Ans.(b)**

**Sol.** Let the number of failed and passed candidates be x and 4x, respectively. Therefore, total number of candidates was 5x.

According to the question,

If total number of students had been

5x–35.

Then,$\frac{4x-35-9}{x+9}=\frac{2}{1}$

$\Rightarrow 4x-44=2\ (x+9)$

$\Rightarrow 4x-2x=18+44$

$\Rightarrow 2x=62$

$\therefore x=31$

Thus, total number of candidates was $31\times 5$ i.e., 155.

**S19. Ans.(b)**

**Sol.** Let Virendra invested his amount for x months.

Ratio of profit of Manish and Birendra = 2700 × 12 : 2025 × $x$

$\Rightarrow \frac{2700\times12}{2025x} = \frac{2}{1}$

By solving x = 8

So, Birendra Joins the business after (12–x) = 12–8 = 4 Months

**S20. Ans.(e)**

**Sol.** Two years CI on $20\% = 20 + 20 + \frac{20\times20}{100} = 44$

ATQ

$\frac{15 \times 2 \times x}{100} + \frac{44}{100} \times (x + 2500) = 14050$

0.30x + 0.44x = 14050 – 1100

$x = \frac{12950}{0.74}$

x = 17500 Rs

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