

BOOKS



The grid displays 48 book covers, organized as follows:

- Row 1:** "THE CRACKER" PRACTICE BOOK FOR GEOMETRY (800+ Questions); 100 SSC CGL (10,000+ Questions); "THE CRACKER" PRACTICE BOOK FOR MENSURATION (850+ Questions); 20+ SSC CGL TIER-II / MAINS 2015-18 (3100 Questions); Ace SSC ARITHMETIC; Ace SSC ADVANCED MATHS.
- Row 2:** Ace SSC GENERAL INTELLIGENCE & REASONING; Ace SSC ENGLISH LANGUAGE & COMPREHENSION BOOK; Ace SSC GENERAL AWARENESS; 15+ INSURANCE EXAMS PREVIOUS YEARS' PAPER 2016-2018 (1800+ Questions); 25+ BANK PO & CLERK PRELIMS PREVIOUS YEARS' PAPERS BOOK (2400+ Questions); 15+ BANK PO | CLERK MAINS PREVIOUS YEARS' PAPERS (2000+ Questions).
- Row 3:** "THE CRACKER" BANK MAINS EXAMS (2000+ Questions); 20+ IBPS PO PRELIMS 2018 MOCK PAPER (2200 Questions); 20+ IBPS CLERK CWE-VIII IBPS CLERK PRELIMS 2018 MOCK PAPERS (2300 Questions); 50+ BANK PO & CLERK 2016-18 (6800+ Questions); A COMPLETE BOOK OF PUZZLE & SEATING ARRANGEMENT (2500+ Questions); A COMPLETE BOOK OF DATA INTERPRETATION & ANALYSIS (2000+ Questions).
- Row 4:** Ace IT OFFICER Professional Knowledge; BANK EXAMS INTERVIEWS (JOB INTERVIEW); Ace BANKING & STATIC AWARENESS; Ace REASONING; Ace QUANT; Ace ENGLISH.

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Solutions

S1. Ans.(e)

Sol. Let present ages of all the three are X, Y and Z respectively.

$$X = 3Y + 3 \dots(i)$$

$$Z = 2Y \dots(ii)$$

$$X = Z + 12 \dots(iii)$$

From equations (i), (ii) and (iii)

$$X - 3Y = 3 \text{ and } X - 2Y = 12$$

After solving these two resultant equations, we get

$$Y = 9 \text{ years}$$

$$\therefore Z\text{'s present age} = 18 \text{ years.}$$

S2. Ans.(c)

Sol. Let in both schemes he invested Rs. P and 2P respectively

$$\text{ATQ, } \left| P \left[\left(1 + \frac{10}{100} \right)^2 - 1 \right] - \frac{2P \times 8 \times 2}{100} \right| = 990$$

$$\Rightarrow \left| \frac{21P}{100} - \frac{32P}{100} \right| = 990$$

$$\Rightarrow P = \frac{99000}{11}$$

$$\Rightarrow P = 9000$$

S3. Ans.(b)

Sol. (Profit of A) : (Profit of B) = 12,500 : 8,500

$$= 125 : 85 = 25 : 17$$

$$40\% \text{ of total profit} = 240 \times \frac{(25 + 17)}{(25 - 17)} = 1260$$

$$\therefore 100\% \text{ profit} = \frac{1260}{40} \times 100 = 3150$$

S4. Ans.(c)

Sol. Required probability = $\frac{{}^5C_2}{{}^{14}C_2} + \frac{{}^3C_2}{{}^{14}C_2}$

$$= \frac{10}{91} + \frac{3}{91}$$

$$= \frac{13}{91} = \frac{1}{7}$$

S5. Ans.(c)

Sol. Required probability = $\frac{{}^6C_2 \times {}^5C_1}{{}^{15}C_3}$

$$= \frac{15}{91}$$



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S6. Ans.(c)

$$\text{Sol.} = 580 + 6 - 3 = 583$$

S7. Ans.(b)

$$\begin{aligned} \text{Sol.} & \frac{75}{100} \times 1228 + \frac{45}{100} \times 400 \\ & = \frac{3}{4} \times 1228 + 45 \times 4 \\ & = 3 \times 307 + 180 \\ & = 921 + 180 = 1101 \end{aligned}$$

S8. Ans.(e)

$$\begin{aligned} \text{Sol.} & 1520 + 18420 + \frac{1680}{80} \\ & = 19940 + 21 \\ & = 19961 \end{aligned}$$

S9. Ans.(c)

$$\begin{aligned} \text{Sol.} & \frac{?}{100} \times 6300 = 225 - \frac{44}{100} \times 225 \\ ? \times 63 & = 225 - 11 \times 9; ? = \frac{126}{63} \\ ? & = 2 \end{aligned}$$

S10. Ans.(b)

$$\begin{aligned} \text{Sol.} & 18 \times 19 = \frac{18}{100} \times 190 \times ? \\ ? & = 10 \end{aligned}$$

S11. Ans.(a)

Sol. Required difference

$$\begin{aligned} & = \left[\left(\frac{40 + 55 + 45 + 65 + 50 + 60}{6} \right) - \left(\frac{55 + 50 + 60 + 55 + 60 + 55}{6} \right) \right] \\ & = \frac{315}{6} - \frac{335}{6} \\ & = 52.5 - 55.833 \\ & = 3.333 \text{ lakhs} \end{aligned}$$

S12. Ans.(c)

Sol. Percentage increase

$$\begin{aligned} & = \frac{50 - 40}{40} \times 100 \\ & = \frac{10}{40} \times 100 = 25\% \end{aligned}$$



S13. Ans.(a)**Sol.** B, F & D shows no growth

$$\text{Growth percentage of A} = \frac{55-40}{40} \times 100 = 37.5\%$$

$$\text{Growth percentage of C} = \frac{60-45}{45} \times 100 = 33\frac{1}{3}\%$$

$$\text{Growth percentage of E} = \frac{60-50}{50} \times 100 = 20\%$$

∴ A shows maximum percentage of growth

S14. Ans.(b)**Sol.** Required percentage

$$= \frac{50 + 60}{50} \times 100$$

$$= \frac{110}{50} \times 100$$

$$= 220\%$$

S15. Ans.(e)**Sol.** Required ratio

$$= \frac{45 + 45}{55 + 55} = \frac{90}{110} = 9 : 11$$

S16. Ans.(d)**Sol.** Pattern is

$$\begin{array}{ccccccccc} 282 & & 286 & & 302 & & 338 & & 402 & & 502 \\ | & & | & & | & & | & & | & & | \\ \hline & & + (2)^2 & & + (4)^2 & & + (6)^2 & & + (8)^2 & & + (10)^2 \end{array}$$

S17. Ans.(b)**Sol.** Pattern is

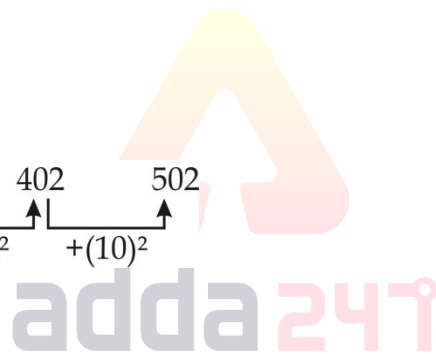
$$\begin{array}{ccccccccc} 2187 & & 729 & & 243 & & 81 & & 27 & & 9 & & 3 \\ | & & | & & | & & | & & | & & | & & | \\ \hline & & \div 3 & & \div 3 & & \div 3 & & \div 3 & & \div 3 & & \div 3 \end{array}$$

S18. Ans.(e)**Sol.** Pattern is

$$\begin{array}{ccccccccc} 384 & & 381 & & 372 & & 345 & & 264 & & 21 \\ | & & | & & | & & | & & | & & | \\ \hline & & -3 & & -9 & & -27 & & -81 & & -243 \\ \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow \\ - (3)^1 & & - (3)^2 & & - (3)^3 & & - (3)^4 & & - (3)^5 \end{array}$$

S19. Ans.(a)**Sol.** Pattern is

$$\begin{array}{ccccccccc} 5 & & 9 & & 18 & & 34 & & 59 & & 95 & & 144 \\ | & & | & & | & & | & & | & & | & & | \\ \hline & & + (2)^2 & & + (3)^2 & & + (4)^2 & & + (5)^2 & & + (6)^2 & & + (7)^2 \end{array}$$







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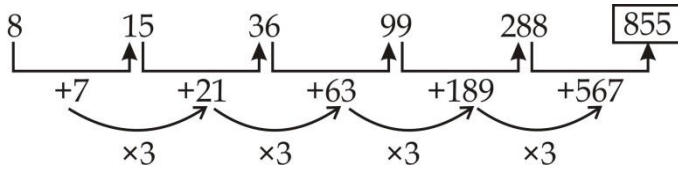
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S20. Ans.(d)

Sol. Pattern is



S21. Ans.(b)

Sol. Required Percentage

$$= \frac{980 - 780}{980} \times 100 \approx 20.4\%$$

S22. Ans.(c)

Sol. Required average

$$= \frac{1}{5} (750 + 280 + 510 + 760 + 640) = 588$$

S23. Ans.(e)

Sol. Required ratio

$$= \frac{560 + 780}{460 + 450} = \frac{1340}{910} = \frac{134}{91}$$

S24. Ans.(b)

Sol. Required percentage

$$= \frac{2970}{5810} \times 100 \approx 51\%$$

S25. Ans.(a)

Sol. Total profit earned

$$= 5810 \times \frac{45}{5} = \text{Rs. } 52,290$$

