

RBI Office Attendant - Quantitative Aptitude Quiz (Solutions)

Quiz - 1

S1. Ans.(b)

Sol.

Let speed of bus and car be $6x$ km/hr and $7x$ km/hr respectively

So,

$$(7x - 6x) \times 4 = 28$$

$$x = 7$$

$$\text{Required time} = \frac{196}{7 \times 7} = 4 \text{ hours}$$

S2. Ans.(e)

Sol.

$$\text{One day work of Veer} = \frac{1}{x}$$

$$3 \text{ day work of Veer} = \frac{3}{x}$$

$$\text{One day work of Sameer} = \frac{1}{(x+4)}$$

$$4 \text{ day work of Sameer} = \frac{4}{x+4}$$

ATQ,

$$\frac{\frac{3}{x}}{\frac{4}{(x+4)}} = \frac{15}{16}$$

$$(3x + 12) 16 = 60x$$

$$48x + 192 = 60x$$

$$x = 16$$

S3. Ans.(c)

Sol.

Let length of train A = length of train B = ℓ m

ATQ,

$$\Rightarrow \frac{\ell+98}{24} = \frac{\ell}{12} \times \frac{120}{100}$$

$$\ell = 70 \text{ m}$$

S4. Ans.(a)

Sol.

Let speed of boat in still water = $11x$

Speed of stream = x

Now ATQ,

$$\frac{220}{(11x-x)} - \frac{220}{11x} = 1$$

$$\frac{220}{10x} - \frac{220}{11x} = 1$$

$$\frac{1}{x} (22 - 20) = 1$$

$$x = 2$$

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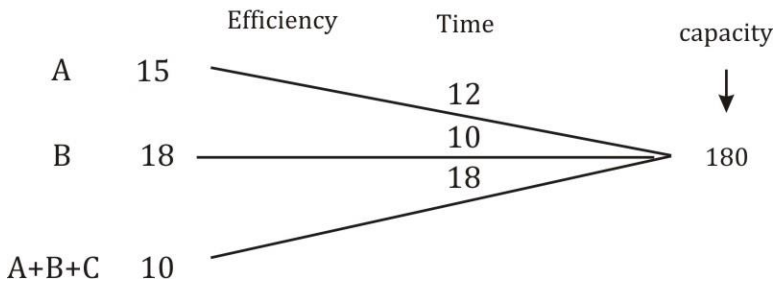
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12 Months Validity

So speed of boat in still water = $11 \times 2 = 22$ km/hr

S5. Ans.(b)

Sol. Let capacity of tank = 180 lit (L.C.M of 12,10, and 18)



Efficiency of C (leak) = $10 - 15 - 18 = -23$ lit/h.

-ve sign indicate that water is leaking.

23 lit/h units = $\frac{23}{60}$ lit/min units = 46 lit/min.

180 units = $\frac{46 \times 60 \times 180}{23} = 21600$ lit

S6. Ans(a)

Sol. let total work = 96 units (multiple of 16)

Let efficiency of Hemant = $4x$ units/day

Then, efficiency of Manoj and Vikash = $3x$ units/day and $2x$ units/day respectively

ATQ

$$4x + 2x = \frac{96}{16}$$

$$6x = 6$$

$$x = 1$$

$$\text{Required time} = \frac{96}{3 \times 1 \times \frac{150}{100}} = 21 \frac{1}{3} \text{ days.}$$

S7. Ans(b)

Sol. let speed of trains - A & B are x m/s and y m/s respectively.

ATQ

$$5x + 5y = 850$$

$$x + y = 170 \dots\dots (i)$$

And

$$x - y = \frac{850}{3}$$

$$x - y = 30 \dots\dots (ii)$$

From (i) and (ii)

$$x = 100 \text{ m/s and } y = 70 \text{ m/s}$$

$$\text{Required ratio} = \frac{5 \times 100}{5 \times 70} = 10:7$$

S8. Ans.(e)

Sol. Time taken by train to cross a pole = $\frac{1}{1200} \times 60 \times 60 = 3$ sec.

When speed is constant then ratio of time taken is directly proportional to Distance covered

So, Ratio of length of train to length of (train + tunnel)

$\Rightarrow 3 : 10$

Let length of train = $3x$

Length of tunnel = $10x - 3x = 7x$

ATQ,

$$7x - 3x = 200$$

$$4x = 200$$

So, $3x = 150$ meter

Speed of train = $\frac{150}{3} = 50$ m/sec.

S9. Ans (b)

Sol. Let total work be 60 units

So, efficiency of A = 4 units/day

And efficiency of B = 3 units/day

Let efficiency of C = x units/day

ATQ

$$(4 + 3 + x) \times 6 = 60$$

$$x = 3 \text{ units/day}$$

ratio of efficiency of A :B :C = 4 :3 :3

C's share in wage = $\frac{3}{10} \times 5400 = \text{Rs } 1620$

S10. Ans (c)

Sol. Let total capacity of the tank be 60 units (LCM of 15, 60, 10)

Now, efficiency of the First, second and third pipe be 4 units/min, 1 units/min and 6 units/min respectively.

Tank filled in first 10 min = $(4 + 1) \times 10 = 50$ units

Now, when all the pipe work together, 1 unit of water will out in every minute from tank.

So, 50 units of water will be emptied in 50 min.

S11. Ans (d)

Sol. Let the length of train be L meter.

ATQ

$$25 = \frac{5L+L}{90 \times \frac{5}{18}} - \frac{L}{90 \times \frac{5}{18}}$$

$$25 = \frac{6L}{25} - \frac{L}{25}$$

$$5L = 625$$

$$L = \frac{625}{5} = 125 \text{ m}$$

S12. Ans (c)

Sol.

$$\text{Downstream speed of boat} = 11.2 \times \frac{60}{48} = 14 \text{ km/hr}$$

$$\text{Speed of boat} = 14 \times \frac{3}{4} = 10.5 \text{ km/hr}$$

$$\text{Speed of current} = 14 \times \frac{1}{4} = 3.5 \text{ km/hr}$$

$$\text{Required time} = \frac{42}{(10.5+3.5)} + \frac{42}{(10.5-3.5)}$$

$$= 3 + 6$$

$$= 9 \text{ hours}$$

S13. Ans (a)

Sol. Let the total capacity of the cistern is 24 units. (LCM)

So, the efficiency of the pipe A and pipe B are 2 units/ hour and 3 units/hour respectively.

ATQ

$$\text{Total time taken to fill the cistern} = \frac{24}{2+3} + \frac{12}{60} = 5 \text{ hour}$$

$$\text{Efficiency of leakage} = (2 + 3) - \frac{24}{5} \text{ units/hour}$$

$$= \frac{1}{5} \text{ units/hour}$$

$$\therefore \text{time taken by leakage to empty the full tank alone} = \frac{24}{\frac{1}{5}} = 120 \text{ hours}$$

S14. Ans (c)

Sol. Let speed of the boat in still water and speed of the current be x km/hr and y km/hr respectively.

ATQ

$$\frac{30}{x-y} + \frac{45}{x+y} = 13 \dots \dots (i)$$

$$\frac{24}{x-y} + \frac{30}{x+y} = 10 \dots \dots (ii)$$

By equating (i) and (ii)

$$\frac{300}{x-y} + \frac{450}{x+y} = \frac{312}{x-y} + \frac{390}{x+y}$$

$$\frac{60}{x+y} = \frac{12}{x-y}$$

$$\frac{x}{y} = \frac{3}{2}$$

Let $x = 3a$ and $y = 2a$

$$\text{Now, } \frac{30}{3a-2a} + \frac{45}{3a+2a} = 13$$

$$\frac{30}{a} + \frac{45}{5a} = 13$$

$$a = 3$$

$$\therefore \text{speed of the current} = 6 \text{ km/hr}$$

S15. Ans (d)

Sol. Let total work be 60 units (LCM)

So, efficiency of Raghav and Dev be 4 units/day and 3 units/day respectively.

$$4\text{-day work of Raghav and Dev} = (4 + 3) \times 4 = 28 \text{ units}$$

$$\text{Remaining work} = 60 - 28 = 32 \text{ units}$$

$$\text{So, fraction of work left} = \frac{32}{60} = \frac{8}{15}$$

Quiz - 2

S1. Ans.(b)

Sol.

Word are = (3-I, 2-N, 1-T, 2-C, 1-O)

$$\text{Required no. of ways} = \frac{8!}{3! \times 2! \times 2!} = 1680$$

S2. Ans.(e)

Sol.

Total two digits number = 90

Multiple of 3 = {12,15,18, 99} = 30

Multiple of 12 = {12,24,36, 96}= 8

Favorable events = 30 - 8 = 22

$$\text{Required probability} = \frac{22}{90} = \frac{11}{45}$$

S3. Ans.(a)

Sol. Let length and breadth of rectangular field = 4x and 9x respectively

ATQ,

$$2 \times (4x + 9x) \times 4 = 208$$

$$x = 2$$

$$\text{Area of are rectangular field} = 4 \times 2 \times 9 \times 2 = 144m^2.$$

S4. Ans(a)

$$\text{Sol. required probability} = \frac{13}{52} \times \frac{12}{51} + \frac{4}{52} \times \frac{3}{51}$$

$$= \frac{156+12}{52 \times 51}$$

$$= \frac{14}{221}$$

S5. Ans(c)

$$\text{Sol. circumference of circle of radius 'r'} = 2\pi r = 22\sqrt{2} \times \sqrt{2}$$

$$\Rightarrow 2\pi r = 22 \times 2$$

$$r = 7 \text{ cm}$$

$$\text{Area of circle } (\pi r^2) = \frac{22}{7} \times 7 \times 7$$

$$= 154 \text{ cm}^2$$

S6. Ans.(d)

Sol.

Let the length be 5x cm

And breadth = 4x cm

ATQ,

$$5x \times 4x - (5x + 3) \left(4x \times \frac{5}{8}\right) = 150$$

$$\Rightarrow 20x^2 - (5x + 3) \times \frac{5x}{2} = 150$$

$$\Rightarrow 20x^2 - \frac{25x^2}{2} - \frac{15x}{2} = 150$$

$$\Rightarrow 15x^2 - 15x = 300$$

$$\Rightarrow x^2 - x - 20 = 0$$

$$\Rightarrow x^2 - 5x + 4x - 20 = 0$$

$$\Rightarrow x(x - 5) + 4(x - 5) = 0$$

$$\Rightarrow x = 5$$

$$\text{Required perimeter} = 2(5x + 4x) = 2 \times 9 \times 5 = 90 \text{ cm}$$

S7. Ans.(d)

Sol. Minimum amount will be when all coins are one-rupee coin

$$\text{Required probability} = \frac{{}^7C_3}{{}^{22}C_3} = \frac{7 \times 6 \times 5}{22 \times 21 \times 20} = \frac{1}{44}$$

S8. Ans.(c)

Sol. Let length & breadth of Rectangular park are 'a' meter and 'b' meter respectively.

ATQ,

$$a^2 + b^2 = (26)^2$$

$$a^2 + b^2 = 676 \dots \text{(i)}$$

$$\text{and } 2(a + b) = 68$$

$$a + b = 34$$

$$a^2 + b^2 + 2ab = 1156 \dots \text{(ii)}$$

using (i) in (ii)

$$2ab = 1156 - 676$$

$$2ab = 480$$

$$\text{Area of park (ab)} = \frac{480}{2} = 240\text{m}^2$$

S9. Ans (a)

$$\text{Sol. Total outcomes (N)} = 6^3 = 216$$

$$\text{The favorable conditions} = (6, 5, 6), (6, 6, 5), (5, 6, 6) = 3$$

$$\text{Required probability} = \frac{3}{216} = \frac{1}{72}$$

S10. Ans.(d)

Sol.

Let length of rectangle = 3x unit

Then, breadth of rectangle = x unit

Atq,

$$\frac{3x \times x}{2 \times (3x + x)} = \frac{9}{2}$$

$$\frac{3x^2}{8x} = \frac{9}{2}$$

$$6x^2 = 72x$$

$$x = 12$$

$$\text{area of rectangle} = 3x^2$$

$$= 3 \times 144$$

$$= 432\text{unit}^2$$

S11. Ans.(c)

Sol.

$$\begin{aligned}\text{Boys in school - A \& E together} &= \frac{720}{9} \times 11 + 350 \times \frac{8}{7} \\ &= 880 + 400 \\ &= 1280\end{aligned}$$

$$\begin{aligned}\text{Boys in school - B \& C together} &= 540 \times \frac{3}{2} + 270 \times \frac{7}{3} \\ &= 810 + 630 \\ &= 1440\end{aligned}$$

$$\begin{aligned}\text{Required ratio} &= \frac{1280}{1440} \\ &= \frac{8}{9} = 8 : 9\end{aligned}$$

S12. Ans.(e)

Sol.

$$\begin{aligned}\text{Average number of girls in school - B, C \& D} &= \frac{540+270+576}{3} \\ &= 462\end{aligned}$$

$$\begin{aligned}\text{Average number of students in school - A \& D} &= \frac{1}{2} \left[720 \times \frac{20}{9} + 576 \times \frac{25}{12} \right] \\ &= \frac{1}{2} [1600 + 1200] \\ &= 1400\end{aligned}$$

$$\begin{aligned}\text{Required \%} &= \frac{462}{1400} \times 100 \\ &= 33\%\end{aligned}$$

S13. Ans.(d)

Sol.

$$\begin{aligned}\text{Students in school - B} &= 540 \times \frac{5}{2} \\ &= 1350\end{aligned}$$

$$\begin{aligned}\text{Girls in school - E and boys in school - D together} &= 350 + 576 \times \frac{13}{12} \\ &= 350 + 624 = 974\end{aligned}$$

$$\text{Required difference} = 1350 - 974 = 376$$

S14. Ans.(d)

Sol.

$$\begin{aligned}\text{Students in school - C \& E together} &= \left[270 \times \frac{10}{3} + 350 \times \frac{15}{7} \right] \\ &= 900 + 750 \\ &= 1650\end{aligned}$$

$$\begin{aligned}\text{Required \%} &= \frac{1650-720}{720} \times 100 \\ &= \frac{930}{720} \times 100 \\ &= \frac{775}{6} \% \\ &= 129\frac{1}{6} \%\end{aligned}$$

S15. Ans.(a)

Sol.

$$\text{Girls in school - A \& D together} = 720 + 576 = 1296$$

$$\begin{aligned}\text{Boys in school - A \& E together} &= 720 \times \frac{11}{9} + 350 \times \frac{8}{7} \\ &= 880 + 400 \\ &= 1280\end{aligned}$$

$$\begin{aligned}\text{Required \%} &= \frac{1296}{1280} \times 100 \\ &= \frac{405}{4} \% \\ &= 101\frac{1}{4} \%\end{aligned}$$

Quiz - 3

S1. Ans.(b)

Sol.

$$\begin{aligned}\frac{?}{4} \times \frac{3}{5} \times \frac{24}{25} \times 625 &= 3125 \times 54 \\ \Rightarrow ? &= \frac{3125 \times 54}{90} \\ \Rightarrow ? &= 1875\end{aligned}$$

S2. Ans.(a)

Sol.

$$\begin{aligned}? &= 13456 - 11342 \\ \Rightarrow ? &= 2114\end{aligned}$$

S3. Ans.(d)

Sol.

$$\begin{aligned}4^7 \times (4^5) &= 4^4 \times 4^5 \\ \Rightarrow 4^7 &= 4^4 \\ \Rightarrow ? &= 4\end{aligned}$$

S4. Ans.(e)

Sol.

$$\begin{aligned}? &= 396 + 224 - 64 \\ \Rightarrow ? &= 556\end{aligned}$$

S5. Ans.(d)

Sol.

$$\begin{aligned}? &= 32 + 28 - 9 \\ ? &= 51\end{aligned}$$

S6. Ans.(c)

Sol.

$$\begin{aligned}\frac{56 \times 55}{100} + \frac{?}{100} \times 132.8 &= 64 \\ 30.8 + \frac{?}{100} \times 132.8 &= 64 \\ ? &= \frac{33.2 \times 100}{132.8} \\ ? &= 25\end{aligned}$$

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S7. Ans.(d)

Sol.

$$280 + ? = 784 - 24$$

$$? = 760 - 280$$

$$? = 480$$

S8. Ans.(d)

Sol.

$$\frac{?}{32.5} + 1024 + \frac{80}{100} \times 317.5 = 1296$$

$$\frac{?}{32.5} = 1296 - 1024 - 254$$

$$\frac{?}{32.5} = 18$$

$$? = 585$$

S9. Ans.(a)

Sol.

$$94.5 + 98 + ? = 196$$

$$? = 196 - 192.5$$

$$? = 3.5$$

S10. Ans.(b)

Sol.

$$\frac{41}{100} \times 2560 + \frac{32}{100} \times 388.75 = 1156 + ?$$

$$1049.6 + 124.4 - 1156 = ?$$

$$? = 1174 - 1156$$

$$? = 18$$

S11. Ans.(a)

Sol.

$$144 + 256 + 90 = ?^2 + 6$$

$$490 = ?^2 + 6$$

$$?^2 = 484$$

$$? = 22$$

S12. Ans.(b)

Sol.

$$(3 + 5 - 2) + \frac{2+1-2}{14}$$

$$= 6 \frac{1}{14}$$

S13. Ans.(e)

Sol.

$$\frac{?}{100} \times 37.5 + 175 = \frac{25}{100} \times 760$$

$$\frac{?}{100} \times 37.5 = 190 - 175$$

$$? = \frac{1500}{37.5}$$

$$? = 40$$

S14. Ans.(c)

Sol.

$$2813 - ? = 484 + 10$$

$$? = 2813 - 494$$

$$? = 2319$$

S15. Ans.(a)

Sol.

$$\frac{783}{?} = 190 + 29.25 - 175.75$$

$$? = \frac{783}{43.5}$$

$$? = 18$$

Quiz - 4

S1. Ans. (a)

Sol. Let efficiency of B be $5x$ units/day

$$\text{So, efficiency of A} = \frac{80}{100} \times 5x$$

$$= 4x \text{ units/day}$$

$$\text{And, efficiency of C} = \frac{120}{100} \times 5x$$

$$= 6x \text{ units/day}$$

$$\text{Total work} = (5x \times 12)$$

$$= 60x \text{ units}$$

$$1 \text{ day wage of A, B \& C together} = \frac{15x}{60x} \times 600$$

$$= \text{Rs.}150$$

$$\text{Required difference} = 150 \times 4 \times \frac{6x-4x}{15x}$$

$$= \text{Rs.}80$$

S2. Ans. (d)

Sol. ATQ,

$$\frac{(100-20-X \times \frac{100-20}{100})}{(20-X \times \frac{20}{100}+X)} = \frac{14}{11}$$

$$\frac{(80-\frac{4X}{5})}{(20+\frac{4X}{5})} = \frac{14}{11}$$

$$X = 30$$

S3. Ans. (e)

$$\text{Sol. Required probability} = \frac{12c_3}{52c_3}$$

$$= \frac{11}{1105}$$

S4. Ans. (b)

Sol. Let radius of cylinder & cone be $2x$ cm & $3x$ cm respectively.

$$\text{So, height of cylinder} = 2x \times \frac{5}{2}$$

$$= 5x \text{ cm}$$

ATQ,

$$\frac{\left(\frac{22}{7} \times (2x)^2 \times 5x\right)}{\left(\frac{22}{7} \times \frac{1}{3} \times (3x)^2 \times 14\right)} = \frac{10}{3}$$

$$x = 7$$

$$\begin{aligned}\text{Required area} &= 2 \times \frac{22}{7} \times 2 \times 7 \times 5 \times 7 \\ &= 3080 \text{ cm}^2\end{aligned}$$

S5. Ans. (d)

Sol. Let A be $100x$.

$$\begin{aligned}\text{So, } C &= \frac{75}{100} \times 100x \times \frac{100}{40} \\ &= \frac{375x}{2}\end{aligned}$$

$$\begin{aligned}\text{And, } B &= 100x \times \frac{100}{80} \\ &= 125x\end{aligned}$$

ATQ,

$$\frac{50}{100} \times 125x + \frac{30}{100} \times \frac{375x}{2} = 95$$

$$62.5x + 56.25x = 95$$

$$x = 0.8$$

$$\begin{aligned}\text{Required value} &= \frac{80}{100} \times 100 \times 0.8 \\ &= 64\end{aligned}$$

S6. Ans. (d)

Sol. Let total capacity of tank be 400 units (LCM of $\frac{100}{9}$ and 16).

$$\text{So, efficiency of pipe - Q} = \frac{400}{16}$$

$$= 25 \text{ units/hour}$$

$$\text{And, efficiency of P \& R together} = 400 \times \frac{9}{100}$$

$$= 36 \text{ units/hour}$$

$$\text{Required time} = \frac{400}{36-25}$$

$$= \frac{400}{11} \text{ hours}$$

S7. Ans. (e)

Sol. Let cost price of article - A be Rs. $100x$

$$\text{So, marked price of article - A} = 100x \times \frac{160}{100}$$

$$= \text{Rs. } 160x$$

$$\text{And, selling price of article - A} = 160x \times \frac{80}{100}$$

$$= \text{Rs. } 128x$$

ATQ,

$$(160x - 128x) - (128x - 100x) = 20$$

$$x = 5$$

$$\text{Now, CP of article - B} = 100 \times 5 \times \frac{100}{80}$$

$$= \text{Rs. } 625$$

S8. Ans. (b)

Sol. Let marks scored by Aman in each of English & Hindi be x .

ATQ,

$$\text{Aman's marks in Math} = (70 \times 3) - 2x$$

$$= 210 - 2x$$

$$\text{And, Aman's marks in Science} = \left(\frac{250}{3} \times 3\right) - 2x$$

$$= 250 - 2x$$

$$\text{Required difference} = (250 - 2x) - (210 - 2x)$$

$$= 40$$

S9. Ans. (a)

$$\text{Sol. Required ways} = 8_{c_3} \times 5_{c_2}$$

$$= 560 \text{ ways}$$

S10. Ans. (d)

Sol. Let length of train - A & B be $4x$ meters and $5x$ meters respectively.

ATQ,

$$\frac{4x+5x}{90} = 36 \times \frac{5}{18}$$

$$x = 100$$

$$\text{Speed of train - A} = \frac{(4 \times 100) + 200}{24}$$

$$= 25 \text{ m/sec}$$

$$\text{So, speed of train - B} = 25 \times \frac{18}{5} + 36$$

$$= 126 \text{ km/hr.}$$

S11. Ans. (a)

$$\text{Sol. Mouse sold by store in 2017 \& 2018 together} = 4500 + 6000$$

$$= 10500$$

$$\text{Keyboard sold by store in 2017 \& 2018 together} = 4000 + 5000$$

$$= 9000$$

$$\text{Required \%} = \frac{10500 - 9000}{9000} \times 100$$

$$= 16\frac{2}{3}\%$$

S12. Ans. (d)

$$\text{Sol. Average of Mouse, Printer and Speaker sold by store in 2017} = \frac{4500 + 3000 + 6000}{3}$$

$$= 4500$$

$$\text{Keyboard and Printer together sold by store in 2019} = (4500 + 6000)$$

$$= 10500$$

$$\text{Required ratio} = \frac{4500}{10500}$$

$$= 3 : 7$$

S13. Ans. (c)

$$\begin{aligned}\text{Sol. Mouse, UPS \& Speakers together sold by store in 2019} &= 8000 + 500 + 5000 \\ &= 13500\end{aligned}$$

$$\begin{aligned}\text{Printer \& Speakers together sold by store in 2018} &= 4000 + 4500 \\ &= 8500\end{aligned}$$

$$\begin{aligned}\text{Required difference} &= 13500 - 8500 \\ &= 5000\end{aligned}$$

S14. Ans. (e)

$$\begin{aligned}\text{Sol. UPS sold by store in 2017, 2018 \& 2019 together} &= 2000 + 1000 + 500 \\ &= 3500\end{aligned}$$

$$\begin{aligned}\text{Printers sold by store in 2017 \& 2018 together} &= 3000 + 4000 \\ &= 7000\end{aligned}$$

$$\begin{aligned}\text{Required \%} &= \frac{3500}{7000} \times 100 \\ &= 50\%\end{aligned}$$

S15. Ans. (c)

$$\begin{aligned}\text{Sol. Required revenue} &= (8000 \times 150) + (500 \times 800) \\ &= 12,00,000 + 4,00,000 \\ &= \text{Rs. 16,00,000 or 16 lacs}\end{aligned}$$

Quiz - 5

S1. Ans.(e)

Sol.

$$\approx \frac{21}{100} \times 1300 + 5x = \frac{52}{100} \times 4400$$

$$273 + 5x = 2288$$

$$5x = 2288 - 273$$

$$x = \frac{2015}{5}$$

$$x = 403$$

S2. Ans.(a)

Sol.

$$\approx 3 \times 5 + \frac{55}{5} + x = 78 \times 2$$

$$\approx 15 + 11 + x = 156$$

$$\approx x = 130$$

S3. Ans.(a)

Sol.

$$\approx \frac{4x+30}{25} + 230 = 320$$

$$\approx \frac{4x+30}{25} + 230 = 320$$

$$\approx \frac{4x+30}{25} = 90$$

$$\approx 4x + 30 = 90 \times 25$$

$$4x = 2250 - 30$$

$$4x = 2220$$

$$x = 555$$

S4. Ans.(e)

Sol.

$$16\sqrt{?} + 69\sqrt{?} - 10\sqrt{?} \approx \frac{75}{34} \times (?)$$

$$75\sqrt{?} = \frac{75}{34} \times (?)$$

$$\Rightarrow \sqrt{?} = \frac{?}{34}$$

$$\Rightarrow \sqrt{?} = 34$$

$$\Rightarrow ? = (34)^2$$

$$\Rightarrow ? = 1156$$

S5. Ans.(b)

Sol.

$$56.08\% \text{ of } 149.92 + \sqrt{28.02 \times 6.98} - 11\frac{1}{9}\% \text{ of } 998.9 = ?$$

$$56\% \text{ of } 150 + \sqrt{28 \times 7} - \frac{1}{9} \times 999 \approx ?$$

$$84 + 14 - 111 = -13$$

S6. Ans.(c)

Sol.

$$79.98\% \text{ of } ? = \sqrt{249.98 \times 44.04} + 40\% \text{ of } 8499$$

$$80\% \text{ of } ? \approx \sqrt{250 \times 44 + \frac{40 \times 8500}{100}}$$

$$\Rightarrow \frac{80}{100} \times ? \approx \sqrt{11000 + 3400}$$

$$\Rightarrow ? \approx \sqrt{14400} \times \frac{10}{8}$$

$$\Rightarrow ? \approx 120 \times \frac{10}{8} = 150$$

S7. Ans.(a)

Sol.

$$? \times 40.01 \div 24.02 \times 27.05 = \frac{593.93}{114.94} \times \frac{2299}{263.98}$$

$$\Rightarrow ? \times \frac{40}{24} \times 27 \approx \frac{594}{115} \times \frac{2300}{264}$$

$$\Rightarrow ? \times 45 \approx 45$$

$$\Rightarrow ? = 1$$

S8. Ans.(d)

Sol.

$$19.99\% \text{ of } (40.01 \times \sqrt{?}) = (31.99)^2 + (16.01)^2$$

$$\Rightarrow \frac{20}{100} \times 40 \times \sqrt{?} \approx 32^2 + 16^2$$

$$\Rightarrow \sqrt{?} \approx \frac{1}{8} \times (1024 + 256)$$

$$\Rightarrow \sqrt{?} \approx \frac{1}{8} \times 1280 \approx 160$$

$$\Rightarrow ? = (160)^2 = 25600$$

S9. Ans.(b)

Sol.

$$? + 13.02 \times 49.98 = 420.05 + \frac{44.98}{100} \times 799 + 220.10$$

$$\Rightarrow ? + 13 \times 50 \simeq 420 + \frac{45}{100} \times 800 + 220$$

$$\Rightarrow ? + 650 \simeq 420 + 360 + 220$$

$$\Rightarrow ? = 1000 - 650 = 350$$

S10. Ans.(e)

Sol.

$$(?)^{\frac{3}{2}} = 255.98 \times (2)^{7.99} \div (8)^{4.99} \times 32.01$$

$$\Rightarrow (?)^{\frac{3}{2}} \simeq 256 \times (2)^8 \div (8)^5 \times 32$$

$$\Rightarrow (?)^{\frac{3}{2}} \simeq \frac{2^8 \times 2^8}{2^{15}} \times 2^5$$

$$\Rightarrow (?)^{\frac{3}{2}} = (2)^6 = 64$$

$$\Rightarrow ? = (64)^{\frac{2}{3}} = 16$$

S11. Ans.(e)

Sol.

$$3028 + 672 - 40\% \text{ of } ? + (10)^3 = (60)^2 - \sqrt{10000}$$

$$3700 + 1000 + 100 - 3600 = \frac{40 \times ?}{100}$$

$$? = 3000$$

S12. Ans.(b)

Sol.

$$\frac{127.5+?}{8} + 25 \times 40 - \sqrt{256} = (32)^2$$

$$\frac{127.5+?}{8} + 1000 - 16 = 1024$$

$$127.5 + ? = 40 \times 8$$

$$? = 320 - 127.5$$

$$? = 192.5$$

S13. Ans.(c)

Sol.

$$\sqrt{1225} + \sqrt{2025} + \sqrt{3025} - \sqrt{100} = (?)^3$$

$$35 + 45 + 55 - 10 = (?)^3$$

$$(?)^3 = 125$$

$$? = 5$$

S14. Ans. (c)

$$\text{Sol. } 560 + 70 = 630$$

S15. Ans.(a)

Sol.

$$35 \times 40 + \sqrt{961} - \sqrt{(29)^2} - 50\% \text{ of } ? = (23)^2$$

$$1400 + 31 - 29 - \frac{?}{2} = 529$$

$$1402 - 529 = \frac{?}{2}$$

$$? = 873 \times 2$$

$$? = 1746$$

Quiz - 6

S1. Ans.(e)

Sol.

$$\text{Required average} = \frac{\frac{1}{3}(40+70+55) \times 1000}{\frac{1}{2}(42+28) \times 1000} = 11 : 7$$

S2. Ans.(a)

Sol.

$$\text{Average production of butterscotch drinks in 2014 and 2018} = \frac{40+52}{2} = 46 \text{ thousand}$$

$$\text{Average production of chocolate drinks in 2015 and 2018} = \frac{60+28}{2} = 44 \text{ thousand}$$

$$\text{Required difference} = 46 \text{ thousand} - 44 \text{ thousand} = 2 \text{ thousand}$$

S3. Ans.(c)

Sol.

$$\text{Total production of butterscotch drinks in 2016 and 2018 together} = 55 + 52 = 107 \text{ thousand}$$

$$\text{Production of chocolate drinks in 2014 and 2017 together} = 50 + 75 = 125 \text{ thousand}$$

$$\text{Required less percent} = \frac{125-107}{125} \times 100$$

$$= \frac{18}{125} \times 100 = 14\frac{2}{5}\%$$

S4. Ans.(b)

Sol.

$$\text{Average production of butterscotch drinks over last five years} = \frac{40+70+55+33+52}{5}$$

$$= \frac{250}{5} = 50$$

$$\text{Required percent} = \frac{70-50}{50} \times 100 = 40\%$$

S5. Ans.(a)

Sol.

In 2015, 2016 and 2018 the production of butterscotch was more than the production of chocolate drink.

Then,

percent production of butterscotch drinks as compared to chocolate drinks –

In 2015

$$= \frac{70-60}{60} \times 100 = 16.67\%$$

In 2016,

$$= \frac{55-42}{42} \times 100 = \frac{13 \times 100}{42} = 30.95\%$$

In 2018,

$$= \frac{52-28}{28} \times 100 = 85.71\%$$

So, production was maximum in year 2018.

S6. Ans.(b)

$$\text{Sol. Required average} = \frac{(190+172)+(162+164)}{2}$$
$$= 344$$

S7. Ans.(a)

$$\text{Sol. Required ratio} = \frac{160+190}{178+172}$$
$$= \frac{350}{350}$$
$$= 1:1$$

S8. Ans.(d)

$$\text{Sol. Required \%} = \frac{\{(168+172)-160\}}{160} \times 100$$
$$= 112.5 \%$$

S9. Ans.(b)

$$\text{Sol. Required difference} = (158 + 190+162) - (168 + 172+164)$$
$$= 510 - 504$$
$$= 6$$

S10. Ans.(c)

$$\text{Sol. Required total number of pens} = 168+178+172+164=682$$

S11. Ans(b)

Sol.

$$\text{Total lectures taken by male lecturers in Friday} = 450 - 250 = 200$$

$$\text{Total lectures taken by male lecturers in Tuesday} = 350 - 200 = 150$$

$$\text{Required percentage} = \frac{200-150}{150} \times 100$$
$$= \frac{50}{150} \times 100 = 33\frac{1}{3}\%$$

S12. Ans(d)

Sol.

$$\text{Total lectures taken by female lecturers in Wednesday} = 100$$

$$\text{Total lectures taken by male lecturers in Monday} = 400 - 150 = 250$$

$$\text{Required ratio} = 100 : 250 = 2 : 5$$

S13. Ans(e)

Sol.

$$\text{Total lectures taken by male lecturers having age below 50 years in Thursday}$$

$$= (250 - 50) \times \frac{60}{100} = 120$$

$$\text{Required difference} = 120 - 50 = 70$$

S14. Ans(a)

Sol.

Total lectures taken by male lecturers in Monday = $400 - 150 = 250$

Total lectures taken by male lecturers in Tuesday = $350 - 200 = 150$

Total lectures taken by male lecturers in Friday = $450 - 250 = 200$

Required average = $\frac{250+150+200}{3} = 200$

S15. Ans(c)

Sol.

Total lectures taken by male lecturers in Wednesday = $300 - 100 = 200$

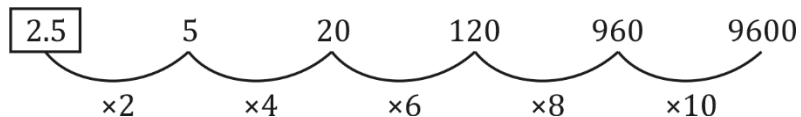
Total lectures taken by male lecturers in Monday = $400 - 150 = 250$

Required percentage = $\frac{200}{250} \times 100 = 80\%$

Quiz - 7

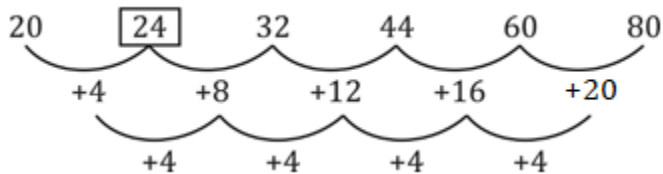
S1. Ans.(b)

Sol.



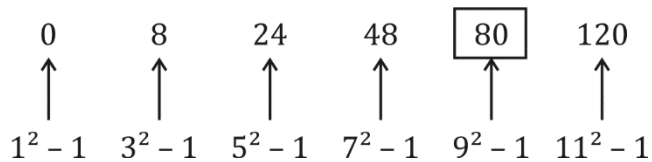
S2. Ans.(d)

Sol.



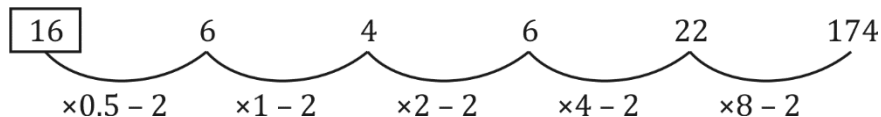
S3. Ans.(d)

Sol.



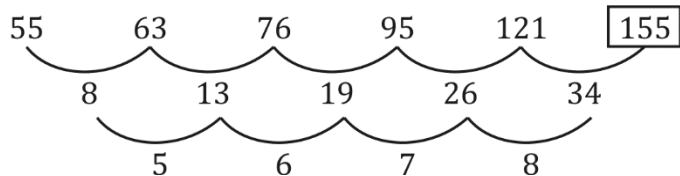
S4. Ans.(a)

Sol.



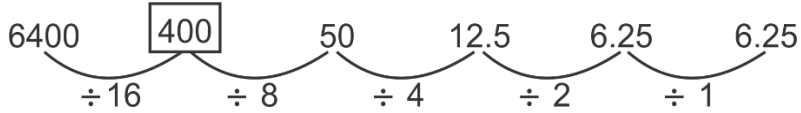
S5. Ans.(b)

Sol.



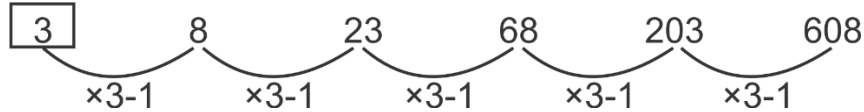
S6. Ans (b)

Sol



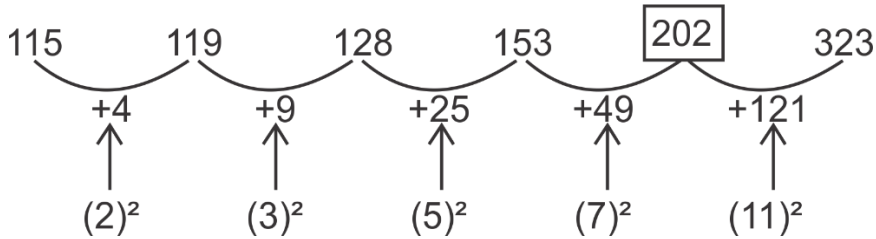
S7. Ans (d)

Sol.



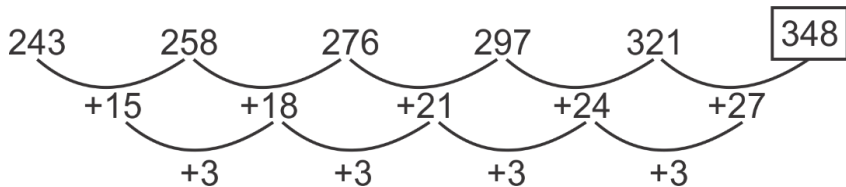
S8. Ans (a)

Sol.



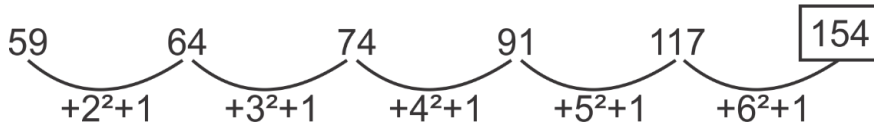
S9. Ans (c)

Sol.



S10. Ans (b)

Sol.



S11. Ans(d)

Sol.

Pattern of series -

$$26 + 13 = 39$$

$$39 + 11 = 50$$

$$50 + 13 = 63$$

$$? = 63 + 11 = 74$$

$$74 + 13 = 87$$

S12. Ans(b)

Sol.

Pattern of series -

$$\times 0.5 + 1, \times 1 + 1, \times 2 + 1, \times 4 + 1, \times 8 + 1$$

$$\text{So, } ? = 12 \times 0.5 + 1 = 7$$

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S13. Ans(a)

Sol.

Pattern of series -

$$24 + (5^2 - 1) = 48$$

$$48 + (7^2 - 1) = 96$$

$$96 + (9^2 - 1) = 176$$

$$176 + (11^2 - 1) = 296$$

$$? = 296 + (13^2 - 1) = 464$$

S14. Ans(b)

Sol.

Pattern of series -

$$63 = (4^3 - 1)$$

$$215 = (6^3 - 1)$$

$$511 = (8^3 - 1)$$

$$? = (10^3 - 1) = 999$$

$$1727 = (12^3 - 1)$$

$$2743 = (14^3 - 1)$$

S15. Ans(e)

Sol.

Pattern of series -

$$16 \times 5 + 5 = 85$$

$$85 \times 4 + 4 = 344$$

$$344 \times 3 + 3 = 1035$$

$$1035 \times 2 + 2 = 2072$$

$$2072 \times 1 + 1 = 2073$$

Quiz - 8

Sol (1-5):

Let the total employees in A, B & C be x, y & z respectively

$$y + z = 720 \text{ -----(i)}$$

$$x + z = 610 \text{ -----(ii)}$$

$$x + y = 650 \text{ -----(iii)}$$

On adding (i), (ii) & (iii)

$$x + y + z = 990 \text{ -----(iv)}$$

from (i) & (iv)

$$x = 270$$

from (ii) & (iv)

$$y = 380$$

from (iii) & (iv)

$$z = 340$$

$$\text{male in A} = \frac{270 \times 5}{9} = 150$$

$$\text{female in A} = 270 \times \frac{4}{9} = 120$$

$$\text{male in B} = \frac{380 \times 9}{19} = 180$$

$$\text{female in B} = \frac{380 \times 10}{19} = 200$$

$$\text{male in C} = \frac{180}{9} \times 8 = 160$$

$$\text{female in C} = 340 - 160 = 180$$

Companies	Male	Female	Total
A	150	120	270
B	180	200	380
C	160	180	340

S1. Ans.(c)

$$\text{Sol. required difference} = (160 + 180) - (150 + 120) = 10$$

S2. Ans.(a)

$$\text{Sol. required \%} = \frac{(120+180)-(150+120)}{(120+180)} \times 100 = 10 \%$$

S3. Ans.(e)

$$\text{Sol. required \%} = \frac{\left(\frac{180+200}{2}\right)}{160} \times 100 = \frac{190}{160} \times 100 = 118.75\%$$

S4. Ans.(d)

$$\text{Sol. required ratio} = \frac{(180+160)}{(120+200)} = \frac{340}{320} = 17:16$$

S5. Ans.(b)

$$\text{Sol. total employees in A who have done their masters} = 150 \times 0.6 + 120 \times 0.8 = 186$$

$$\text{required \%} = \frac{186}{270} \times 100 = 68\frac{8}{9}\%$$

Sol (6-10):

Let the population of Hindu to that of Muslim be $3x$ & $2x$ respectively.

$$\text{Total number of male in Muslim} = \frac{2400}{3} \times 5 = 4000.$$

$$\text{Total population of Muslim} = 6400.$$

$$\text{Total population of Hindu} = 9600.$$

$$\text{Total population of Gurgaon} = 16000.$$

$$\text{In Hindu, number of female} = 4800.$$

$$\text{\& number of male} = 4800.$$

$$\text{In Gurgaon, number of female} = \frac{16000}{20} \times 9 = 7200$$

$$\text{In Gurgaon, number of male} = \frac{16000}{20} \times 11 = 8800.$$

	Hindu	Muslims
Male	4800	4000
Female	4800	2400

S6. Ans.(b)

$$\text{Sol. required \%} = \frac{4800}{16000} \times 100 = 30\%$$

S7. Ans.(a)

$$\text{Sol. required difference} = (4800 + 4000) - (4800 + 2400) = 1600.$$

S8. Ans.(d)

Sol. Total population in Gurgaon which are eligible to cast the votes = 11200.

Hindu population which are eligible to cast the votes = 5760

Muslims population which are eligible to cast the votes = 11200 - 5760 = 5440.

S9. Ans.(c)

$$\text{Sol. Required \%} = \frac{2400}{9600} \times 100 = 25\%$$

S10. Ans.(b)

Sol. Total population having domicile = $0.8 \times 16000 = 12800$.

Muslim population having domicile = $\frac{12800}{32} \times 15 = 6000$

Hindu population having domicile = $12800 - 6000 = 6800$.

$$\begin{aligned} \text{Required difference} &= \{(9600 - 6800) - (6400 - 6000)\} \\ &= 2800 - 400 = 2400. \end{aligned}$$

S11. Ans. (c)

$$\begin{aligned} \text{Sol. Number of Activa in A \& B together in 2019} &= \left(6000 \times \frac{100-50}{100}\right) + \left(4000 \times \frac{100-25}{100}\right) \\ &= 3000 + 3000 \\ &= 6000 \end{aligned}$$

$$\begin{aligned} \text{Number of Activa in D \& E together in 2018} &= \left(8000 \times \frac{100-25}{100}\right) + \left(5000 \times \frac{100-20}{100}\right) \\ &= 6000 + 4000 \\ &= 10000 \end{aligned}$$

$$\begin{aligned} \text{Required \%} &= \frac{6000}{10000} \times 100 \\ &= 60\% \end{aligned}$$

S12. Ans. (b)

$$\begin{aligned} \text{Sol. Average number of aviators in C, D \& E in 2018} &= \frac{1}{3} \times \left(\left(6000 \times \frac{30}{100}\right) + \left(8000 \times \frac{25}{100}\right) + \right. \\ &\left. \left(5000 \times \frac{20}{100}\right) \right) \\ &= \frac{1}{3} \times (1800 + 2000 + 1000) \\ &= 1600 \end{aligned}$$

$$\begin{aligned} \text{Average number of aviators in A \& D in 2019} &= \frac{1}{2} \times \left(\left(6000 \times \frac{50}{100}\right) + \left(10000 \times \frac{20}{100}\right) \right) \\ &= \frac{1}{2} \times (3000 + 2000) \\ &= 2500 \end{aligned}$$

$$\begin{aligned} \text{Required difference} &= 2500 - 1600 \\ &= 900 \end{aligned}$$

S13. Ans. (e)

$$\begin{aligned}\text{Sol. Number of Activa in A, B \& C together in 2018} &= \left(\left(3000 \times \frac{100-40}{100} \right) + \left(2000 \times \frac{100-50}{100} \right) + \right. \\ &\left. \left(6000 \times \frac{100-30}{100} \right) \right) \\ &= 1800 + 1000 + 4200 \\ &= 7000\end{aligned}$$

S14. Ans. (d)

$$\begin{aligned}\text{Sol. Number of Avaitor in C \& E together in 2019} &= \left(\left(9000 \times \frac{40}{100} \right) + \left(8000 \times \frac{60}{100} \right) \right) \\ &= 3600 + 4800 \\ &= 8400\end{aligned}$$

$$\begin{aligned}\text{Number of Activa in D \& E together in 2019} &= \left(\left(10000 \times \frac{100-20}{100} \right) + \left(8000 \times \frac{100-60}{100} \right) \right) \\ &= 8000 + 3200 \\ &= 11200\end{aligned}$$

$$\begin{aligned}\text{Required \%} &= \frac{11200-8400}{11200} \times 100 \\ &= 25\%\end{aligned}$$

S15. Ans. (a)

$$\begin{aligned}\text{Sol. Required number of Avaitor} &= \left(3000 \times \frac{40}{100} \right) + \left(2000 \times \frac{50}{100} \right) \\ &= 1200 + 1000 \\ &= 2200\end{aligned}$$

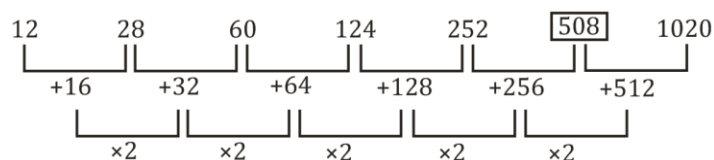
Quiz - 9

S1. Ans(a)

Sol.

Wrong number = 506

Pattern of series -



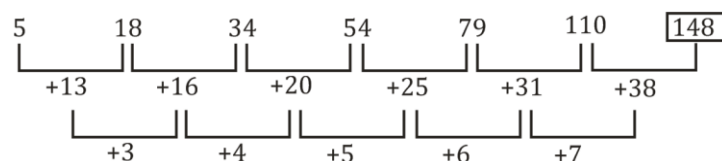
So, there should be 508 in the place of 506.

S2. Ans(e)

Sol.

Wrong number = 158

Pattern of series -



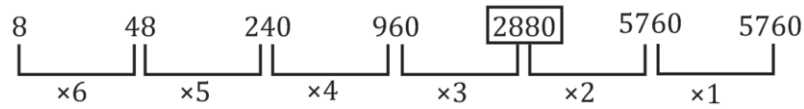
So, there should be 148 in the place of 158

S3. Ans(d)

Sol.

Wrong number = 2400

Pattern of series -



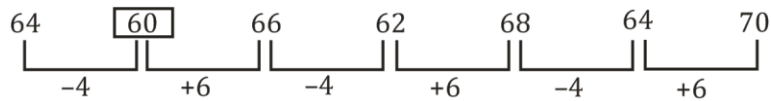
So, there should be 2880 in the place of 2400.

S4. Ans(b)

Sol.

Wrong number = 58

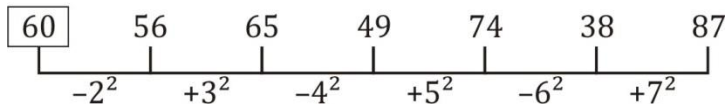
Pattern of series -



So, there should be 60 in the place of 58.

S5. Ans.(b)

Sol.



So, there should be 60 in the place of 64

S6. Ans(a)

Sol.

Wrong number = 104

Pattern of series -

$$12 + 27 = 39$$

$$39 + 24 = 63$$

$$63 + 27 = 90$$

$$90 + 24 = 114$$

$$114 + 27 = 141$$

$$141 + 24 = 165$$

So, 114 should come in the place of 104

S7. Ans(d)

Sol.

Wrong number = 562

$$13 + 3^3 = 40$$

$$40 + 4^2 = 56$$

$$56 + 5^3 = 181$$

$$181 + 6^2 = 217$$

$$217 + 7^3 = 560$$

$$560 + 8^2 = 624$$

So, 560 should come in the place of 562.

S8. Ans(c)

Sol.

Wrong number = 134

Pattern of series -

$$112 + 16 = 128$$

$$128 - 20 = 108$$

$$108 + 24 = 132$$

$$132 - 28 = 104$$

$$104 + 32 = 136$$

$$136 - 36 = 100$$

So, should be 136 come in the place of 134.

S9. Ans(d)

Sol.

Wrong number = 255

Pattern of series -

$$120 = 11^2 - 1$$

$$145 = 12^2 + 1$$

$$168 = 13^2 - 1$$

$$197 = 14^2 + 1$$

$$224 = 15^2 - 1$$

$$16^2 + 1 = 257$$

$$288 = 17^2 - 1$$

So, should be 257 come in the place of 255.

S10. Ans(d)

Sol.

Wrong number = 920

Pattern of series -

$$5 \times 1 + 1 = 6$$

$$6 \times 2 + 2 = 14$$

$$14 \times 3 + 3 = 45$$

$$45 \times 4 + 4 = 184$$

$$184 \times 5 + 5 = 925$$

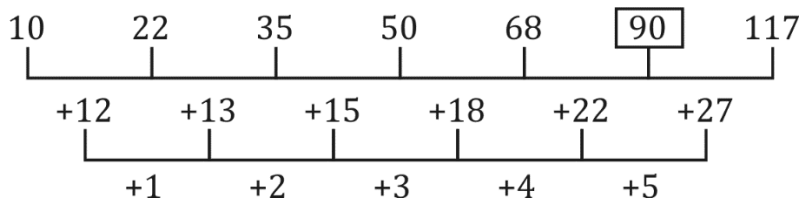
$$925 \times 6 + 6 = 5556$$

So, 925 should come in the place of 920.

S11. Ans(a)

Wrong number = 92

Pattern of series -



So, 90 should come in the place of 92.

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S12. Ans(b)

Sol.

Wrong number = 144

Pattern of series -

$$17 + 15 = 32$$

$$32 + 20 = 52$$

$$52 + 25 = 77$$

$$77 + 30 = 107$$

$$107 + 35 = 142$$

$$142 + 40 = 182$$

So, 142 should come in the place of 144

S13. Ans(d)

Sol.

Wrong number = 35

Pattern of series -

$$210 \div 7 = 30$$

$$30 \times 6 = 180$$

$$180 \div 5 = 36$$

$$36 \times 4 = 144$$

$$144 \div 3 = 48$$

$$48 \times 2 = 96$$

So, 30 should come in the place of 35.

S14. Ans(b)

Sol.

Wrong number = 11116

Pattern of series -

$$12 \times 1 + 2 = 14$$

$$14 \times 2 + 2 = 30$$

$$30 \times 3 + 2 = 92$$

$$92 \times 4 + 2 = 370$$

$$370 \times 5 + 2 = 1852$$

$$1852 \times 6 + 2 = 11114$$

So, 11114 should come in the place of 11116

S15. Ans(b)

Wrong number = 741

Pattern of series -

$$5 + (15)^2 = 230$$

$$230 + (14)^2 = 426$$

$$426 + (13)^2 = 595$$

$$595 + (12)^2 = 739$$

$$739 + (11)^2 = 860$$

$$860 + (10)^2 = 960$$

So, 739 should come in the place of 741.

Quiz - 10

S1. Ans.(b)

Sol.

$$\frac{65 \times 360}{100} - \frac{?}{100} \times 250 \approx 139$$

$$\Rightarrow 234 - \frac{25 \times ?}{10} = 139$$

$$\Rightarrow ? = \frac{95 \times 10}{25} = 38$$

S2. Ans.(a)

Sol.

$$\sqrt{912 \div 24 + 184 - 53} \approx ?$$

$$\Rightarrow ? = \sqrt{169} = 13$$

S3. Ans.(c)

Sol.

$$(15)^2 - (5)^3 + \sqrt{1521} + 9 \times 13 \approx (?)^2$$

$$\Rightarrow 225 - 125 + 39 + 117 = (?)^2$$

$$\Rightarrow ? = \sqrt{256} = 16$$

S4. Ans.(e)

Sol.

$$(3750 - ?) \div 55 \approx 23$$

$$\Rightarrow ? = 3750 - 55 \times 23$$

$$? = 2485$$

S5. Ans.(d)

Sol.

$$(3416 \div 56) - (1134 \div ?) \approx 19$$

$$\Rightarrow 61 - \frac{1134}{?} = 19$$

$$\Rightarrow 42 = \frac{1134}{?}$$

$$\Rightarrow ? = 27$$

S6. Ans.(c)

Sol.

$$\text{Required average} = \frac{350 \times \frac{3}{7} + 400 \times \frac{9}{20} + 200 \times \frac{12}{25}}{3} = \frac{150 + 180 + 96}{3}$$

$$= 142$$

S7. Ans.(a)

Sol. Total number of Hollywood movies watched by student

$$E = 375 \times \frac{16}{25} = 240$$

$$\text{Required percentage} = \frac{(400 - 240)}{400} \times 100 = \frac{160}{400} \times 100 = 40\%$$

S8. Ans.(d)

$$\text{Sol. Total number of Hollywood movies watched by students C and B together} = 250 \times \frac{3}{10} + 400 \times \frac{11}{20} \\ = 75 + 220 = 295$$

$$\text{Total number of Bollywood movies watched by students D and E together} = \frac{200 \times 12}{25} + \frac{375 \times 9}{25} \\ = 96 + 135 = 231$$

$$\text{Required difference} = 295 - 231 = 64$$

S9. Ans.(b)

$$\text{Sol. Required ratio} = \frac{250+200}{\frac{400 \times 9}{20} + \frac{250 \times 7}{10} + \frac{375 \times 9}{25}} = \frac{450}{490} \\ = 45 : 49$$

S10. Ans.(e)

$$\text{Sol. Required percentage} = \frac{(400+200)}{(350+250)} \times 100 = 100\%$$

S11. Ans.(d)

Sol.

Let increase per year is $x\%$

So,

$$35000 \times \frac{(100+x)}{100} \times \frac{(100+x)}{100} = 55566$$

$$x = 26\%$$

S12. Ans.(c)

Sol.

$$1^{\text{st}} \text{ C.P.} \rightarrow 12000 \text{ Rs.}$$

$$1^{\text{st}} \text{ S.P.} \rightarrow \frac{12000 \times 80}{100} = 9600 \text{ Rs.}$$

Now,

$$2^{\text{nd}} \text{ C.P.} \rightarrow 9600 \text{ Rs.}$$

$$2^{\text{nd}} \text{ S.P.} \rightarrow \frac{9600 \times 130}{100} = 12480 \text{ Rs.}$$

$$\text{Profit} \Rightarrow 480 \text{ Rs.}$$

S13. Ans.(a)

Sol.

Let sum = P

Now,

$$\frac{P \times 7 \times 7}{100} = 1519$$

$$P = \frac{1519 \times 7 \times 7}{100}$$

$$P = 3100 \text{ Rs.}$$

S14. Ans.(e)

Sol. Let amount = $30x$

So,

X, Y and Z was to get $\Rightarrow 5x, 10x, 15x$ respectively

But

X, Y and Z actually get $\Rightarrow 10x, 8x, 12x$ respectively

X got $\Rightarrow 10x - 5x = 305 \Rightarrow x = 61$

So Z get $\Rightarrow 61 \times 12 = 732$ Rs.

S15. Ans.(b)

Sol. Let age of Mahendra = x

So age of Niraj = $x + 12$

Present age of Bhavya = $\frac{(x+12-3)}{3}$
 $= \frac{x+9}{3}$

Now,

$$\frac{x}{\frac{x+9}{3}} = \frac{2}{1}$$

$$x = 18$$

Niraj's age $\Rightarrow 18 + 12 = 30$

Quiz - 11

S1. Ans.(e)

Sol. I. $x^2 + 9x - 22 = 0$

$$\Rightarrow x^2 + 11x - 2x - 22 = 0$$

$$\Rightarrow (x + 11)(x - 2) = 0$$

$$\Rightarrow x = -11, 2$$

II. $2y^2 - 7y + 6 = 0$

$$\Rightarrow 2y^2 - 4y - 3y + 6 = 0$$

$$\Rightarrow 2y(y-2) - 3(y-2) = 0$$

$$\Rightarrow (y-2)(2y-3) = 0$$

$$\Rightarrow y = 2, \frac{3}{2}$$

No relation

S2. Ans.(e)

Sol. I. $2y^2 - 13y - 34 = 0$

$$\Rightarrow 2y^2 - 17y + 4y - 34 = 0$$

$$\Rightarrow y(2y-17) + 2(2y-17) = 0$$

$$\Rightarrow (2y-17)(y+2) = 0$$

$$\Rightarrow y = \frac{17}{2}, -2$$

II. $3x^2 - 11x - 20 = 0$

$$\Rightarrow 3x^2 - 15x + 4x - 20 = 0$$

$$\Rightarrow 3x(x-5) + 4(x-5) = 0$$

$$\Rightarrow (x-5)(3x+4) = 0$$

$$\Rightarrow x = 5, \frac{-4}{3}$$

No relation

S3. Ans.(b)

Sol. I. $x^4 = 256$

$\Rightarrow x = \pm 4$

II. $y^2 - 16y + 64 = 0$

$\Rightarrow (y - 8)^2 = 0$

$\Rightarrow y = 8$

$y > x$

S4. Ans.(e)

Sol.

I. $x^2 + 4x - 12 = 0$

$x^2 + 6x - 2x - 12 = 0$

$x = -6, 2$

II. $2y^2 + 7y + 6 = 0$

$2y^2 + 4y + 3y + 6 = 0$

$2y(y + 2) + 3(y + 2) = 0$

$y = -2, \frac{-3}{2}$

\therefore No relation

S5. Ans.(b)

Sol. I. $2x + 3y = 4$

II. $4x + 5y = 6$

Solving eq. (I) and (II),

$(2x + 3y = 4) \times 2$

$4x + 5y = 6$

$y = 2$

Put $y = 2$ in eq. (I),

$2x + 6 = 4$

$\Rightarrow x = -1$

$y > x$

S6. Ans(d)

Sol.

I. $x = \pm 4$

II. $y = +4$

So, $x \leq y$

S7. Ans(d)

Sol.

I. $x^2 + 23x + 132 = 0$

$x^2 + 12x + 11x + 132$

$x(x + 12) + 11(x + 12)$

$(x + 12)(x + 11)$

$x = -11, -12$

$$\text{II. } y^2 + 11y + 6y + 66 = 0$$

$$y(y + 11) + 6(y + 11) = 0$$

$$(y + 11)(y + 6) = 0$$

$$y = -11, -6$$

So, $x \leq y$

S8. Ans(d)

Sol.

$$\text{I. } x^2 - 7x - 6x + 42 = 0$$

$$x(x - 7) - 6(x - 7) = 0$$

$$(x - 6)(x - 7) = 0$$

$$x = 6, 7$$

$$\text{II. } y^2 - 8y - 7y + 56 = 0$$

$$y(y - 8) - 7(y - 8) = 0$$

$$(y - 8)(y - 7) = 0$$

$$y = 8, 7$$

So, $x \leq y$

S9. Ans(e)

Sol.

$$\text{I. } x = \pm 11$$

$$\text{II. } y^2 + 13y - 11y - 143 = 0$$

$$y(y + 13) - 11(y + 13) = 0$$

$$(y + 13)(y - 11) = 0$$

$$y = -13, 11$$

So, no relation can be established between x and y .

S10. Ans(d)

Sol.

$$\text{I. } x^2 - 12x - 8x + 96 = 0$$

$$x(x - 12) - 8(x - 12) = 0$$

$$(x - 8)(x - 12) = 0$$

$$x = 8, 12$$

$$\text{II. } y^2 - 16y - 12y + 192 = 0$$

$$y(y - 16) - 12(y - 16) = 0$$

$$(y - 12)(y - 16) = 0$$

$$y = 12, 16$$

$x \leq y$

S11. Ans.(c)

Sol.

$$\text{I. } x^2 + 12x + 35 = 0$$

$$x^2 + 7x + 5x + 35 = 0$$

$$(x + 7)(x + 5) = 0$$

$$\therefore x = -5 \text{ or } -7$$

$$\begin{aligned} \text{II. } y^2 + 9y + 20 &= 0 \\ y^2 + 5y + 4y + 20 &= 0 \\ (y + 5)(y + 4) &= 0 \\ y &= -5, -4 \\ \Rightarrow x &\leq y \end{aligned}$$

S12. Ans.(d)

Sol.

$$\begin{aligned} \text{I. } x^2 - 15x + 54 &= 0 \\ x^2 - 9x - 6x + 54 &= 0 \\ (x - 9)(x - 6) &= 0 \\ \therefore x &= 9 \text{ or } 6 \end{aligned}$$

$$\begin{aligned} \text{II. } y^2 - 23y + 132 &= 0 \\ y^2 - 11y - 12y + 132 &= 0 \\ (y - 11)(y - 12) &= 0 \\ y &= 11 \text{ or } 12 \\ \therefore x &< y \end{aligned}$$

S13. Ans.(e)

Sol.

$$\begin{aligned} \text{I. } 6x^2 + 5x + 1 &= 0 \\ 6x^2 + 3x + 2x + 1 &= 0 \\ 3x(2x + 1) + 1(2x + 1) &= 0 \\ x &= -\frac{1}{2} \text{ or } -\frac{1}{3} \end{aligned}$$

$$\begin{aligned} \text{II. } 15y^2 + 11y + 2 &= 0 \\ 15y^2 + 6y + 5y + 2 &= 0 \\ 3y(5y + 2) + 1(5y + 2) &= 0 \\ \therefore y &= -\frac{2}{5} \text{ or } -\frac{1}{3} \end{aligned}$$

\therefore no relation can be established

S14. Ans.(e)

Sol.

$$\begin{aligned} \text{I. } x^2 - 3x - 28 &= 0 \\ x^2 - 7x + 4x - 28 &= 0 \\ x(x - 7) + 4(x - 7) &= 0 \\ \therefore x &= 7 \text{ or } -4 \end{aligned}$$

$$\begin{aligned} \text{II. } y^2 - y - 12 &= 0 \\ y^2 + 3y - 4y - 12 &= 0 \\ y(y + 3) - 4(y + 3) &= 0 \\ \therefore y &= -3 \text{ or } 4 \end{aligned}$$

\therefore no relation can be established



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S15. Ans.(b)

Sol.

$$I. x^2 - 2x - 3 = 0$$

$$x^2 - 3x + x - 3 = 0$$

$$x(x - 3) + 1(x - 3) = 0$$

$$\therefore x = 3 \text{ or } -1$$

$$II. y^2 + 5y + 6 = 0$$

$$y^2 + 3y + 2y + 6 = 0$$

$$(y + 2)(y + 3) = 0$$

$$\therefore y = -2 \text{ or } -3$$

$$\therefore x > y$$

Quiz - 12

S1. Ans.(d)

Sol.

$$80\% \text{ of } 350 + 45\% \text{ of } 800 = ? \times 256$$

$$280 + 360 = ? \times 256$$

$$? = \frac{640}{256} = 2.5$$

S2. Ans.(e)

Sol.

$$115\% \text{ of } 360 + 180\% \text{ of } 270 = ? \times 225$$

$$414 + 486 = ? \times 225$$

$$? = \frac{900}{225} = 4$$

S3. Ans.(b)

Sol.

$$9^? \times 729 = \frac{3^4 \times 9^6}{81}$$

$$9^? = \frac{9^2 \times 9^6}{9^2 \times 9^3} = 9^3$$

$$\Rightarrow ? = 3$$

S4. Ans.(d)

Sol.

$$5\frac{1}{4} + 7\frac{1}{3} + 4\frac{1}{2} = 3\frac{1}{6} + ? + 5\frac{1}{6}$$

$$(5 + 7 + 4) + \left(\frac{1}{4} + \frac{1}{3} + \frac{1}{2}\right) - 3 - 5 - \frac{1}{6} - \frac{1}{6} = ?$$

$$8 + \frac{1}{4} + \frac{1}{2} + \frac{1}{3} - \frac{1}{3} = ?$$

$$? = 8 + \frac{2+4}{8} = 8\frac{3}{4}$$

S5. Ans.(a)

Sol. Wrong no. is 1020.

$$3 \times 1 + 2 = 5$$

$$5 \times 2 + 4 = 14$$

$$14 \times 3 + 6 = 48$$

$$48 \times 4 + 8 = 200$$

$$200 \times 5 + 10 = 1010$$

$$1010 \times 6 + 12 = 6072$$

So, there should be 1010 instead of 1020.

S6. Ans.(b)

Sol. Wrong no. is 590

$$48 \times 2 - 12 = 84$$

$$84 \times 2 - 12 = 156$$

$$156 \times 2 - 12 = 300$$

$$300 \times 2 - 12 = 588$$

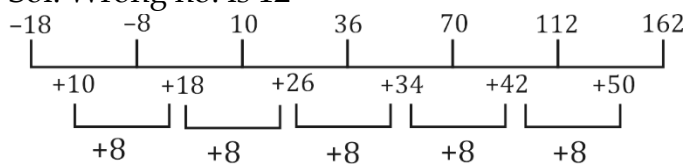
$$588 \times 2 - 12 = 1164$$

$$1164 \times 2 - 12 = 2316$$

So, there should be 588 instead of 590.

S7. Ans.(e)

Sol. Wrong no. is 12



So, there should be 10 instead of 12.

S8. Ans(c)

Sol.

$$2 \quad 6 \quad 12 \quad \boxed{20} \quad 30 \quad 42 \quad 56$$

$$\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$$

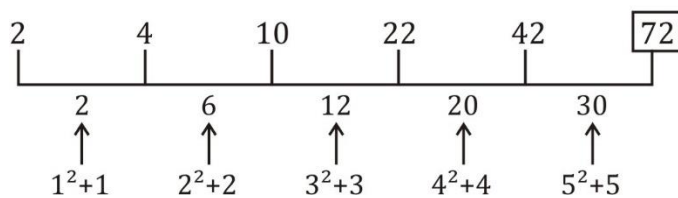
$$1^2 + 1 \quad 2^2 + 2 \quad 3^2 + 3 \quad 4^2 + 4 \quad 5^2 + 5 \quad 6^2 + 6 \quad 7^2 + 7$$

Wrong number is 24.

S9. Ans.(c)

Sol.

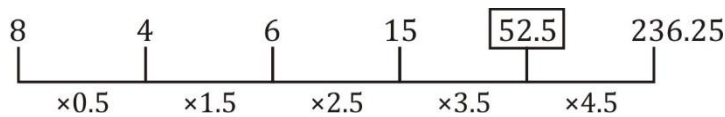
Pattern of series



S10. Ans.(d)

Sol.

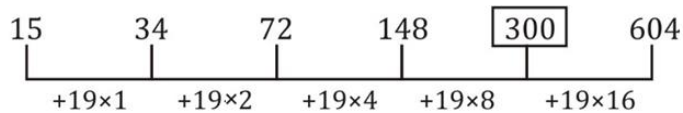
Pattern of series



S11. Ans.(a)

Sol.

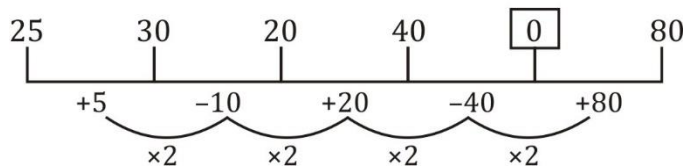
Pattern of series



S12. Ans.(d)

Sol.

Pattern of series



S13. Ans.(b)

Sol. $\therefore 3599 \div 20 + 110 \times 24.9 + 418 = ?$

$3600 \div 20 + 110 \times 25 + 418 = ?$

$? \cong 180 + 2750 + 418$

$? = 3348$

$? \cong 3350$

S14. Ans.(c)

Sol. $25 \times 12.9 + \sqrt{399} + 1145 = ?$

$25 \times 13 + \sqrt{400} + 1145 = ?$

$? = 325 + 20 + 1145$

$? = 345 + 1145$

$? \cong 1490$

S15. Ans.(b)

Sol. $3453.9 + 6119.8 + 1729.9 = ?$

$? = 3454 + 6120 + 1730$

$? = 11304$

$? \cong 11310$

S16. Ans.(e)

$$\text{Sol. } 140 \times 12.9 - 442 \div 22 + 979 = ?$$

$$140 \times 13 - 440 \div 22 + 979 = ?$$

$$=? = 1820 - 20 + 979$$

$$=? = 1800 + 979$$

$$=? = 2779$$

$$? \cong 2780$$

S17. Ans.(b)

$$\text{Sol. (I) } x^2 - 14x + 48 = 0$$

$$\therefore x^2 - 8x - 6x + 48 = 0$$

$$x(x - 8) - 6(x - 8) = 0$$

$$(x - 8)(x - 6) = 0$$

$$\therefore x = 8, 6$$

$$\text{(II) } y^2 - 18y + 80 = 0$$

$$\therefore y^2 - 8y - 10y + 80 = 0$$

$$\therefore y(y - 8) - 10(y - 8) = 0$$

$$\therefore (y - 8)(y - 10) = 0$$

$$\therefore y = 8, 10$$

$$\therefore x \leq y$$

S18. Ans.(c)

$$\text{Sol. (I) } x^3 + 328 = 2525$$

$$\therefore x^3 = 2525 - 328$$

$$\therefore x^3 = 2197$$

$$\therefore x = 13$$

$$\text{(II) } y^3 + 349 = 1680$$

$$\therefore y^3 = 1680 - 349$$

$$\therefore y^3 = 1331$$

$$\therefore y = 11$$

$$\therefore x > y$$

S19. Ans.(e)

$$\text{Sol. (I) } x^2 - 19x + 88 = 0$$

$$\therefore x^2 - 8x - 11x + 88 = 0$$

$$\therefore x(x - 8) - 11(x - 8) = 0$$

$$\therefore (x - 8)(x - 11) = 0$$

$$\therefore x = 8, 11$$

$$\text{(II) } y^2 - 21y + 108 = 0$$

$$\therefore y^2 - 9y - 12y + 108 = 0$$

$$\therefore y(y - 9) - 12(y - 9) = 0$$

$$\therefore (y - 12)(y - 9) = 0$$

$$\therefore y = 9, 12$$

So, no relation

S20. Ans.(d)

Sol. (I) $x^3 = 1728$

$$\therefore x = \sqrt[3]{1728}$$

$$\therefore x = 12$$

(II) $y^2 = 144$

$$\therefore y = \sqrt{144}$$

$$y = \pm 12$$

$$\therefore x \geq y$$

Quiz - 13

S1. Ans.(c)

Sol. Let odd numbers are $x - 4, x - 2, x, x + 2, x + 4$

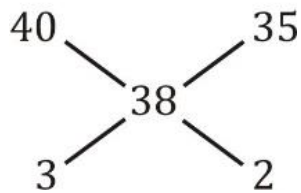
$$\therefore \frac{x-4+x-2+x+x+2+x+4}{5} = 33$$

$$\Rightarrow x = 33$$

$$\therefore \text{least odd number} = 33 - 4 = 29$$

S2. Ans.(c)

Sol.



ATQ, $5 \rightarrow 50$.

$1 \rightarrow 10$.

$2 \rightarrow 20$

Number of Girls = 20.

S3. Ans.(e)

Sol. Total present age of five employee

$$= 54 \times 5 + 3 \times 5 = 270 + 15 = 285 \text{ years}$$

Total present age of all six employee = $52 \times 6 = 312$

$$\text{Age of new employee} = 312 - 285 = 27 \text{ years}$$

S4. Ans.(b)

Sol.

Let four numbers $\rightarrow a, b, c, d$

Let initially it replaced 'a'

$$= \frac{x+b+c+d}{4} = \frac{a+b+c+d}{4} + 1 \dots \text{(i)}$$

Let then it replaced 'b'

$$= \frac{x+a+c+d}{4} + 1 = \frac{a+b+c+d}{4} \dots \text{(ii)}$$

Solving (i) and (ii)

$$b - a = 8$$

S5. Ans.(d)

Sol.

Total present age of father and son = $(36 + 3) \times 2 = 78$ years

Let present age of son be x years.

The, present age of father = $(78 - x)$ years.

Present age of mother = $(2x - 3)$ years.

ATQ,

$$\frac{(2x-3)+3}{78-x-4} = \frac{24}{25}$$

$$\Rightarrow 50x = 74 \times 24 - 24x$$

$$\Rightarrow x = 24$$

$$\text{Required average} = \frac{24+45+54}{3} = 41 \text{ years.}$$

S6. Ans.(e)

Sol.

$$\frac{40}{100} \times (X + 2000) = 1300 \Rightarrow X = 1250$$

$$\frac{60}{1200} \times (1250 + Y) = 1830 \Rightarrow Y = 1800$$

$$X : Y = 1250 : 1800 = 25 : 36$$

S7. Ans.(e)

Sol.

$$40 \times P = 75 \times Q$$

$$\Rightarrow 8P = 15Q$$

$$\text{Required percent} = \frac{15 \times 1.5Q}{20Q} \times 100 = 112 \frac{1}{2} \%$$

S8. Ans.(d)

Sol.

Using the formula,

% reduction in consumption

$$= \frac{25}{(100+25)} \times 100$$

$$= 20\%$$

S9. Ans.(d)

Sol.

Let fraction is $\frac{x}{y}$

So ATQ

$$\frac{x}{y} \times \frac{120}{100} = \frac{6x}{5y}$$

$$\Rightarrow \frac{6x(100+240)}{5y(150)} = \frac{6}{5}$$

$$\frac{x}{y} = \frac{15}{34}$$

S10. Ans.(b)

Sol.

$$\frac{20}{100}(X + 2500) = \frac{40}{100}(X + 900)$$

$$0.2X + 500 = 0.4X + 360$$

$$0.2X = 140$$

$$X = 700$$

$$50\% \text{ of } X = \frac{1}{2} \times 700 = 350$$

S11. Ans.(d)

Sol.

Let no. of balls in bag x and y is $2a$ and $3a$ respectively

\Rightarrow Now 5 balls are taken out of bag y and put in bag x

$$\therefore \frac{2a+5}{3a-5} = \frac{1}{1}$$

$$\Rightarrow 2a + 5 = 3a - 5$$

$$a = 10$$

\therefore No. of balls in each bag is

$$x \Rightarrow 2 \times 10 + 5 = 25$$

$$y \Rightarrow 3 \times 10 - 5 = 25$$

S12. Ans.(a)

Sol. Let earning of A & B be $2x$ and x respectively then

ATQ,

$$\frac{2x-5y}{x-3y} = \frac{4}{1}$$

$$\Rightarrow 2x - 5y = 4x - 12y$$

$$\Rightarrow 2x = 7y$$

$$\Rightarrow x = \frac{7}{2}y \text{ _____ (i)}$$

again, $(2x - 5y) + (x - 3y) = 5,000$

$$\Rightarrow 3x - 8y = 5,000$$

using eq (i), we get

$$y = 2,000$$

$$\text{then } x = 7,000$$

So, required income of B = Rs 7,000

S13. Ans (c)

Sol. Let two numbers are $5x$ and $7x$ respectively.

ATQ

$$\frac{5x+30}{7x+30} = \frac{3}{4}$$

$$20x + 120 = 21x + 90$$

$$x = 30$$

So, two numbers are 150 and 210 respectively.

$$\text{Now, required ratio} = \frac{150-10}{210-10} = \frac{140}{200} = \frac{7}{10}$$

S14. Ans.(e)

Sol. Let number A and B are $11x$ and $19x$ respectively

ATQ,

$$\frac{11x+19}{19x+11} = \frac{2}{3}$$

$$33x + 57 = 38x + 22$$

$$5x = 35$$

$$x = 7$$

Required answer = $B + 20$

$$= 19 \times 7 + 20 = 153$$

S15. Ans.(d)

Sol.

Let income of A and B be Rs $5x$ and Rs $9x$ respectively

Expenditure of A = Rs $\frac{15}{8}x$

Saving of A = Rs $\frac{25}{8}x$

Expenditure of B = Rs $4x$

Saving of B = Rs $5x$

ATQ

$$\frac{65}{8}x = 1950$$

$$x = 240$$

required difference = Rs 960

Quiz - 14

S1. Ans.(e)

Sol.

Age of Ayush = $\frac{50}{2} + 11 = 36$ years

Age of Abhishek = $\frac{3}{4} \times 36 = 27$ years.

Required difference = $36 - 27 = 9$ years.

S2. Ans.(e)

Sol.

Let 4 consecutive even no. are $x, x + 2, x + 4$ & $x + 6$

& 3 consecutive odd no. are $y - 2, y, y + 2$

ATQ,

$$4x + 12 - 3y = 94$$

$$4x - 3y = 82 \dots(i)$$

$$\frac{x+6+y-2}{2} = 42$$

$$x + y = 84 - 4$$

$$x + y = 80 \dots(ii)$$

multiplying. (ii) by 3 & solving with ... (i)

$$x = 46$$

\therefore Second lowest even no. = 48

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S3. Ans.(b)

Sol.

Sum of Present age Ritu & Priya = $22 \times 2 = 44$

Let,

Ritu's age = x

Priya's age = $44 - x$

ATQ,

$$\frac{44-x+8}{x+8} = \frac{7}{8}$$

$$8(52 - x) = 7x + 56$$

$$\Rightarrow x = \frac{360}{15} = 24$$

$$\text{Required ratio} = \frac{24-2}{44-24-2} = \frac{22}{18} = \frac{11}{9}$$

S4. Ans.(d)

Sol.

Present age of Laxmi = $14 + 2 = 16$ years

Sum of age of Kapil and Renu = $11.5 \times 2 = 23$ years

Present age of Kapil = $16.5 \times 2 - 6 - 16$

= 11 years

Age of Renu 10 years hence = $23 - 11 + 10 = 22$ years

S5. Ans.(a)

Sol.

Let present age of son be x years

Present age of father = $(2x + 6)$ yr

ATQ

$$\frac{(x+4)+(2x+6+4)}{2} = 34$$

$$x = 18$$

$$\text{Required ratio} = \frac{18}{42} = 3:7$$

S6. Ans (a)

Sol.

Let present age of Lalit and Vikas be ' x years' and ' y years' respectively

ATQ

$$x - 10 = 5(y - 10)$$

$$x = 5y - 40 \dots\dots\dots(i)$$

$$\text{And } x + 20 = 2(y + 20)$$

$$x = 2y + 20 \dots\dots\dots(ii)$$

From (i) and (ii)

$$x = 60 \text{ and } y = 20$$

$$\text{Required ratio} = \frac{20-5}{60-5} = \frac{15}{55}$$

$$= 3 : 11$$

S7. Ans.(d)

Sol.

$$\text{Sum of present age of couple} = 2 \times 29 = 58$$

Age of family after 8 years

$$= 58 + 8 \times 2 + (8 - 2) + (8 - 4)$$

$$= 58 + 16 + 6 + 4$$

$$= 84$$

$$\text{Required average} = \frac{84}{4} = 21$$

S8. Ans (a)

Sol. Let the age of Rashmi 16 years hence be $10x$ years Then, 16 years hence Neha's age = $13x$ years

Present age of Rashmi = $(10x-16)$ years

Present age of Neha = $(13x-16)$ years

ATQ,

$$\frac{10x-16-8}{13x-16-8} = \frac{4}{7}$$

$$\Rightarrow 70x-168 = 52x-96$$

$$\Rightarrow 18x = 72$$

$$\Rightarrow x = 4$$

Present age of Rashmi = 24 years.

Present age of Neha = 36 years.

$$\text{Required \%} = \frac{12}{24} \times 100 = 50\%$$

S9. Ans.(b)

Sol. ATQ,

Let present age of A, B, C, D be $6x$, $8x$, $11x$ and $15x$ years respectively.

$$(6x - 4) + (8x - 4) + (11x - 4) + (15x - 4) = 64$$

$$40x = 80$$

$$x = 2$$

Difference of present age of B and D is

$$(15 - 8) \times 2 = 14 \text{ years}$$

S10. Ans(e)

Sol.

Let the numerator and denominator of a fraction be x and y respectively

ATQ

$$x + 4 = 1.5y \dots\dots (i)$$

$$\text{And } \frac{x+5}{2y} = \frac{x}{y}$$

$$x=5$$

and $y=6$

$$\text{Original fraction} = \frac{5}{6}$$

$$\text{Required fraction} = \frac{5}{6} \times 2 = \frac{5}{3}$$

S11. Ans(e)

Sol. Let the two -digit no. be $(10a + b)$, where a is tens digit and b is unit digit.

ATQ

$$(10a + b) + 0.2(10a + b) = (10b + a)$$

$$11a = 8.8b$$

$$\left(\frac{a}{b} = \frac{4}{5}\right)$$

Since the no. is two- digit number. So the only possible no. is 45 and reverse of it is 54.

So, 40% of no.=18

S12. Ans.(d)

Sol.

Let, S_1 series be $\rightarrow (x - 4), (x - 2), (x), (x+2), (x +4)$

Let S_2 series be $\rightarrow (y - 4), (y - 2), (y), (y + 2), (y + 4)$

ATQ,

$$x = 1.5y$$

$$\text{And, } x - 4 + y - 4 = 67$$

$$\Rightarrow x + y = 75$$

$$\Rightarrow 2.5y = 75$$

$$\Rightarrow y = 30$$

$$\text{largest no. of } S_2 \text{ series} = y + 4 = 30 + 4 = 34$$

S13. Ans(d)

Sol.

Let present age of Chintu be $5x$ years

Then present age of Binny= $8x$ years

And present age of Amit= $6x$ years

ATQ

$$8x - 5x - (8x - 6x)=6$$

$$x = 6$$

Required average= 40 years

S14. Ans. (a)

Sol.

Let age of Ravi and Vicky, 4 years ago was $5x$ years and $6x$ years respectively

2 years later, age of Ravi= $(5x+6)$ years

Age of Rocky, 2 years later= $\left(\frac{6x+4}{4} \times 5\right) + 2$ years

ATQ

$$(5x+6) + \left(\frac{6x+4}{4} \times 5\right) + 2=63$$

$$x=4$$

required difference= 4 years

S15. Ans.(b)

Sol.

Let the fraction be $\frac{x}{y}$

ATQ,

$$\frac{2.5x}{0.75y} = \frac{8}{9}$$

$$\Rightarrow \frac{x}{y} = \frac{4}{15}$$

Quiz - 15

S1. Ans.(b)

Sol.

Let B's investment = a

And,

Total investment = 28x

And total profit = 15x

A's investment = 28x - a

Ratio of profit share between A and B = (28x - a) : a

Let Profit of A = (28x - a)b

Let Profit of B = (ab)

Now,

$$28xb - ab + ab = 15x$$

$$\Rightarrow 28xb = 15x$$

$$\Rightarrow b = \frac{15}{28}$$

$$\text{B's profit} = ab = \frac{15}{28} \times a = 5250$$

$$\text{B's investment} = a = 5250 \times \frac{28}{15} = 9800$$

S2. Ans.(d)

Sol.

$$\text{Ratio of investment of Anurag and Roshan} = \frac{(12,000 \times 12)}{48} : \frac{(14,000 \times 6 + 10,500 \times 6)}{49}$$

$$\text{So, profit share of Anurag} = \frac{9700}{(48+49)} \times 48 = \text{Rs. 4800}$$

S3. Ans.(b)

Sol.

Let A increased his sum by x and B decreased his sum by x

ATQ,

$$\frac{45000 \times 4 + (45000 + x) \times 8}{60000 \times 4 + (60,000 - x) \times 8} = \frac{1}{1}$$

$$\Rightarrow 45,000 + 90,000 + 2x = 60,000 + 120,000 - 2x$$

$$\Rightarrow 4x = 45,000$$

$$\Rightarrow x = \text{Rs. 11,250}$$

S4. Ans.(c)

Sol.

Let x ltr. of water is added.

$$\therefore \frac{\frac{3}{7} \times 84}{\frac{4}{7} \times 84 + x} = \frac{2}{5}$$

$$\Rightarrow \frac{36}{48+x} = \frac{2}{5}$$

$$\Rightarrow 90 = 48 + x$$

$$\Rightarrow x = 42 \text{ ltr.}$$

S5. Ans.(a)

Sol.

Let initial quantity of milk and water be x and y respectively

Now

$$\frac{x}{y} = \frac{3}{2}$$

$$x = \frac{3}{2}y \dots (i)$$

Again

$$\frac{x+4}{y} = \frac{2}{1}$$

$$x - 2y + 4 = 0 \dots (ii)$$

Put (i) in (ii)

$$\frac{3}{2}y - 2y = -4$$

$$y = 8$$

So $x = 12$ liter

So total quantity = $12 + 8 = 20$ liter

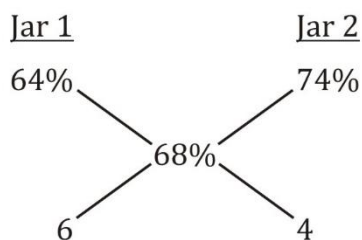
S6. Ans.(d)

Sol.

Percentage of milk in first jar = 64%

Percentage of milk in second jar = $(100 - 26) = 74\%$

Now using allegation method



Required ratio = 3 : 2

S7. Ans.(e)

Sol.

On selling mixture, retailer earns 150% profit

\Rightarrow If container contains 5 l of mixture then quantity of milk is 2 l.

Let x l of water is added in container

ATQ

$$\frac{60}{40+x} = \frac{2}{3}$$

$$\Rightarrow 180 = 80 + 2x \Rightarrow \boxed{x = 50 \text{ l}}$$

S8. Ans.(c)

Sol.

Let initially grapes juice = $4x$

Alcohol = $5x$

ATQ,

$$\frac{5x+18}{4x} = \frac{9}{4}$$

$$\Rightarrow 4x = 18$$

$$\Rightarrow x = 4.5 \text{ li}$$

\therefore Required answer = $4 \times 4.5 = 18$ liters

S9. Ans.(c)

Sol.

Let the quantity of water and alcohol in the initial mixture be $8x$ lit and $5x$ lit respectively.

ATQ,

$$\frac{5x}{8x+4} = \frac{5}{9}$$

$$\Rightarrow 45x = 40x + 20$$

$$\Rightarrow x = 4$$

Quantity of initial mixture = $13x = 13 \times 4 = 52 \text{ lit}$

S10. Ans.(a)

Sol.

Let the alcohol added be x liter

ATQ,

$$\frac{9+x}{30+x} = \frac{2}{5}$$

$$\text{Or, } 45 + 5x = 60 + 2x$$

$$\text{Or, } 3x = 15$$

$$\text{Or, } x = 5 \text{ ltr.}$$

S11. Ans.(d)

Sol.

Rahul invested for 12 months and Karan invested for 10 months.

Let amount invested by Rahul is x .

ATQ,

$$\frac{12 \times x}{3500 \times 10} = \frac{9}{7}$$

$$x = \frac{9 \times 3500 \times 10}{7 \times 12}$$

$$= \text{Rs. } 3750$$

S12. Ans.(c)

Sol.

Let price of type A wheat be Rs. x per kg and price of type B wheat be Rs. y per kg

ATQ,

$$12 \times x + 18 \times y = 30 \times 1.2x$$

$$18y = 36x - 12x$$

$$18y = 24x$$

$$x : y = 3 : 4$$

S13. Ans.(c)

Sol.

Let Y invested for ' x ' months

So

profit ratio

$$X : Y$$

$$12 \times 8000 : x \times 5000$$

$$96 : 5x$$

Given that

$$\frac{96}{5x} = \frac{3000}{4250 - 3000}$$

$$x = 8 \text{ months}$$

S14. Ans.(b)

Sol.

Let R's investment = x

Q's investment = $x + 6000$

P's investment = $x + 14000$

ATQ,

$$x + x + 6000 + x + 14000 = 74000$$

$$x = \text{Rs. } 18,000$$

$$P : Q : R = 32000 : 24000 : 18000 = 16 : 12 : 9$$

$$Q's \text{ profit} = \frac{12}{37} \times 44,400 = \text{Rs. } 14,400$$

S15. Ans.(d)

Sol.

$$\text{Left milk in container} = 75 \times \left(1 - \frac{15}{75}\right)^2 = 48 \text{ liters}$$

Quiz - 16

S1. Ans.(c)

$$\text{Sol. daily wage of a woman} = \frac{1250}{10 \times 5} = 25 \text{ Rs}$$

Daily wage of a man = Rs 50

$$\text{Daily wage of all men} = \frac{1600}{8} = 200 \text{ Rs}$$

$$\text{Total no. of man} = \frac{200}{50} = 4$$

S2. Ans.(b)

Sol.

$$12M + 13B = \frac{4893.75}{3}$$

$$12M + 13B = 1631.25 \dots (i)$$

$$5M + 6B = \frac{3562.5}{5}$$

$$5M + 6B = 712.5 \dots (ii)$$

$$60M + 65B = 8156.25$$

$$\underline{60M + 72B = 8550.0}$$

$$7B = 393.75$$

$$B = 56.25$$

$$5M = 712.5 - 337.50$$

$$M = 75$$

$$\text{One day wage of 3M and 4B} = 3 \times 75 + 4 \times 56.25 = 450$$

$$\text{Rs. 3150 can be earned in} = \frac{3150}{450} = 7 \text{ days}$$

S3. Ans.(c)

Sol.

We know work efficiency ratio of A to B = 5 : 4

Let time taken by A alone to complete the work = 4x

And by B to complete the work alone = 5x

Atq,

$$5x - 4x = 6$$

$$\Rightarrow x = 6$$

So, A alone can complete the work in 24 day

And, B alone can complete the work in 30 day

A and B working together can complete the work in

$$= \frac{1}{\frac{1}{30} + \frac{1}{24}} = \frac{120}{9} = 13\frac{1}{3} \text{ days}$$

S4. Ans.(b)

Sol.

Let A does 100n units of work in one day

So C does 120n units of work in one day

And B does 75n units of work in one day

Total work = 120n × 45 units

$$\text{So, 'X'} = \frac{120n \times 45}{(75n + 100n)} \text{ days.}$$

$$= \frac{5400}{175} \text{ days}$$

$$= \frac{216}{7} \text{ days}$$

$$= 30\frac{6}{7} \text{ days}$$

S5. Ans.(b)

Sol.

(Priya and Monika)'s 1 day work alternatively

$$= \frac{1}{18} + \frac{1}{30} = \frac{8}{90}$$

(Priya and Monika)'s 22 days work

$$= \frac{8 \times 22}{90} = \frac{88}{90}$$

$$\text{Remaining work} = 1 - \frac{88}{90} = \frac{2}{45}$$

$$\therefore \frac{1}{45} \text{ work done by Priya} = \frac{2}{5} \text{ days}$$

$$\text{Total time} = 22\frac{2}{5} \text{ days.}$$

S6. Ans.(b)

Sol.

Ratio of efficiency of A to B = 7 : 5

So ratio of time required to complete a work = 5 : 7

Now ATQ,

$$(7 - 5) \rightarrow 6 \text{ day}$$

$$2 \rightarrow 6$$

$$5 \rightarrow \frac{6}{2} \times 5 = 15 \text{ days}$$

So, 'A' can complete the work alone in 15 days

S7. Ans.(c)

Sol.

Efficiency ratio

$$P + Q \quad R \rightarrow P + Q + R$$
$$2 \quad 1 \quad 3$$

$$P + R \quad Q \rightarrow P + Q + R$$
$$3 \quad 1 \quad 4$$

Make P+Q+R equal in both the cases

$$\Rightarrow P + Q \quad R \quad P + Q + R$$
$$2 \times 4 \quad 1 \times 4 \quad 3 \times 4$$

$$P + R \quad Q \quad P + Q + R$$
$$3 \times 3 \quad 1 \times 3 \quad 4 \times 3$$

$$R's \text{ efficiency} = 4$$

$$Q's \text{ efficiency} = 3$$

$$P's \text{ efficiency} = 5$$

$$\text{Total work} = (4 + 3 + 5) \times 36$$

$$\text{Time by R} = \frac{12 \times 36}{4} = 108 \text{ days.}$$

S8. Ans.(b)

Sol.

Let efficiency of 1 man and 1 woman is m and w respectively.

So, total work

$$5m \times 16 = 8w \times 15$$

$$\frac{m}{w} = \frac{3}{2}$$

$$\text{Work done in} = \frac{3 \times 5 \times 16}{6+6} = 20 \text{ days}$$

S9. Ans.(d)

Sol. Ratio of efficiency of A and B = 3 : 5

⇒ Time taken by A and B alone to complete the work = 5 : 3

Ratio of time taken by B and C alone to complete the work = 4 : 5

⇒ Ratio of time taken by A, B and C alone to complete the work = 20 : 12 : 15

Let, A, B and C alone can complete the work alone is 20x, 12x and 15x days respectively.

ATQ,

$$\frac{12}{20x} + \frac{12}{12x} = \frac{80}{100}$$

$$\Rightarrow \frac{144+240}{240x} = \frac{4}{5}$$

$$\Rightarrow \frac{5 \times 384}{4 \times 240} = x$$

$$\Rightarrow x = 2$$

Let in 'a' days 'B' and 'C' can complete 60% of work

ATQ,

$$\frac{a}{12 \times 2} + \frac{a}{15 \times 2} = \frac{60}{100}$$

$$\Rightarrow \frac{5a+4a}{120} = \frac{3}{5}$$

$$\Rightarrow a = \frac{3}{5} \times \frac{120}{9} = 8 \text{ days}$$

S10. Ans.(a)

Sol.

ATQ,

$$\frac{8}{24} + \frac{12}{32} + \frac{28}{x} = 1 \text{ (where x is time taken by R to complete whole work)}$$

$$\frac{1}{3} + \frac{3}{8} + \frac{28}{x} = 1$$

$$x = 96 \text{ days}$$

Time taken by R to complete the whole work = 96 days

S11. Ans.(a)

Sol.

Let R worked for x days

$$\therefore \frac{(x+4+4)}{24} + \frac{4}{32} + \frac{x}{40} = 1$$

$$\Rightarrow \frac{x+8}{24} + \frac{x}{40} = \frac{7}{8}$$

$$\Rightarrow 5x + 40 + 3x = 105$$

$$\Rightarrow x = \frac{65}{8} \text{ days}$$

S12. Ans. (d)

Sol. Inlet pipe can fill the tank = 4 hours

Outlet pipe can empty the tank = 30 hours

Ratio of efficing

Inlet $\rightarrow + 15$
Per hour work }
Outlet $\rightarrow - 2$

To prevent overflow we required

7 more outlet piper

So outlet efficiency become = - 16 per hour

S13. Ans.(e)

Sol. Let Pipe A can fill the tank in x minutes

\Rightarrow Pipe B can fill the tank in $x \times \frac{100}{150} = \frac{2x}{3}$

ATQ,

$$\frac{1}{x} + \frac{3}{2x} = \frac{1}{18}$$

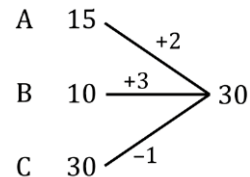
$$\Rightarrow \frac{5}{2x} = \frac{1}{18}$$

$$\Rightarrow x = 45$$

Capacity of tank = $45 \times 6 = 270$ l

S14. Ans.(c)

Sol.



In 2 hours, part of the tank filled = $2(4) = 8$ units

Now required time = $\frac{(30-8)}{5}$

$$= \frac{22}{5}$$

= 4hour 24mins.

S15. Ans.(b)

Sol. Let, the capacity of tank = 180 l

'A' one minutes work = $\frac{180}{30} = 6$

'B' one minute work = $\frac{180}{36} = 5$

Problem occur after 'x' minutes, due to this

New efficiency of 'A' = $6 \times \frac{5}{6} = 5$

New efficiency of 'B' = $5 \times \frac{9}{10} = 4.5$

ATQ,

$$9.5x + 11 \left[\frac{33}{2} - x \right] = 180$$

$$181.5 - 180 = 1.5x$$

$$x = \frac{1.5}{1.5} = 1 \text{ minutes}$$

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Quiz - 17

S1. Ans.(e)

Sol. Amount invested by Man in each Part = $\frac{9600}{2} = 4800$ Rs

ATQ -

$$\frac{4800 \times 12.5 \times T}{100} + \frac{4800 \times 16 \times (T+2)}{100} = 4272$$

$$600T + 768T + 1536 = 4272$$

$$1368T = 2736$$

$$T = \frac{2736}{1368}$$

$$T = 2 \text{ years}$$

S2. Ans.(c)

Sol.

$$\frac{P \times 15 \times 2}{100} + \frac{(P+800) \times 8.5 \times 2}{100} = 4836$$

$$\frac{30P}{100} + \frac{17P+13600}{100} = 4836$$

$$47P = 483600 - 13600$$

$$47P = 470000$$

$$P = 10000 \text{ Rs}$$

Amount invested by veer at rate of 8.5% = $(P + 800)$

$$= (10000+800)$$

$$= 10800 \text{ Rs}$$

S3. Ans.(e)

Sol. Let man invested for T year and at the rate of R% per annum

$$\text{Given, } T = \frac{R}{4}$$

ATQ -

$$\frac{8500 \times \frac{R}{4} \times R}{100} = 1360$$

$$R^2 = \frac{1360 \times 4}{85}$$

$$R^2 = 64$$

$$R = 8\%$$

$$\text{Time} = \frac{8}{4} = 2 \text{ years}$$

S4. Ans.(b)

Sol. Let Adarsh invested Rs 100x

For four years

ATQ -

$$100x + \frac{100x \times R \times 4}{100} = 134x$$

$$4R = 34$$

$$R = \frac{34}{4}$$

$$R = 8.5\%$$

S5. Ans.(c)**Sol.** Total interest at end of two years

$$= \frac{12600 \times 15 \times 2}{100} = 3780$$

Amount for next two years

$$= 12600 + 3780 - 6380$$

$$= 10000 \text{ Rs}$$

Amount which Abhishek will pay to Satish at end of next two years

$$= 10000 + \frac{10000 \times 15 \times 2}{100}$$

$$= 13000 \text{ Rs}$$

S6. Ans.(c)**Sol.** Amount - principal = $\frac{\text{Principal} \times \text{Rate} \times \text{time}}{100}$

$$25920 - 16200 = \frac{16200 \times R \times 4}{100}$$

$$R = \frac{9720 \times 100}{16200 \times 4}$$

$$R = 15\%$$

$$\text{Amount} = 16200 + \frac{16200 \times 2 \times (15+5)}{100}$$

$$= 16200 + 6480$$

$$= 22680 \text{ Rs}$$

S7. Ans.(d)**Sol.** Interest earns in C.I.

$$\Rightarrow 1655 = P \left[\left(1 + \frac{10}{100} \right)^3 - 1 \right]$$

$$P = 5000$$

$$\text{Total amount} = 5000 + 1655 = 6655$$

Interest earn from scheme Q

$$= \frac{6655 \times 8 \times 5}{100}$$

$$= 2662 \text{ Rs.}$$

S8. Ans(e)**Sol.**

Let sum of money invested = X Rs.

ATQ –

$$X \left(1 + \frac{r}{100} \right)^2 = 4840 \text{ ----- (i)}$$

Also,

$$X \left(1 + \frac{r}{100} \right)^4 = 5856.4 \text{ ----- (ii)}$$

From $\frac{(i)^2}{(ii)}$ we get –

$$X = \frac{4840 \times 4840}{5856.4}$$

$$X = 4000 \text{ Rs.}$$

$$\text{Required amount} = 4000 \times \frac{145}{100} = 5800 \text{ Rs.}$$

S9. Ans.(e)

Sol. Let the amount be Rs x

ATQ

$$x \times \frac{30}{100} - x \times \frac{21}{100} = 432$$

$$x = \text{Rs } 4800$$

S10. Ans.(e)

Sol. Let amount Sonu invested = 121x

$$\text{Interest that Sonu will earn in first year} = 121x \times \frac{100}{11 \times 100} \\ = 11x$$

$$\text{Interest that he will earn in second year} = 11x + 11x \times \frac{1}{11} = 12x$$

ATQ,

$$\Rightarrow 12x = 372$$

$$\Rightarrow x = \frac{372}{12}$$

$$\Rightarrow x = 31$$

Hence, amount invested by Sonu = 121x = 31 × 121

$$121x = 3751 \text{ Rs.}$$

S11. Ans.(a)

Sol. Let amount be Rs. P

$$\text{S.I.} = \frac{P \times R \times T}{100} \quad [\text{R} \rightarrow \text{rate, T} \rightarrow \text{time}]$$

$$180 = \frac{P \times 5 \times 3}{100}$$

$$P = \text{Rs. } 1200$$

We know,

$$\text{C.I.} = P \left[\left(1 + \frac{R_1}{100} \right) \left(1 + \frac{R_2}{100} \right) - 1 \right]$$

$$R_1 = 10\%$$

$$R_2 = R$$

$$318 = 1200 \left[\left(1 + \frac{10}{100} \right) \left(1 + \frac{R}{100} \right) - 1 \right]$$

$$\frac{318}{1200} + 1 = \left[\left(\frac{11}{10} \right) \left(1 + \frac{R}{100} \right) \right]$$

$$\frac{1518}{1200} = \frac{11}{10} \times \left(\frac{100+R}{100} \right)$$

$$\therefore R = 15\%$$

S12. Ans(d)

Sol. Let Veer invested = Rs. P

So, interest get by Veer after 10 years = Rs. P

ATQ -

$$P \times 10 \times R / 100 = P$$

$$R = 10\%$$

$$\text{Required amount} = 1600 \times 1 + 101003$$

$$= 1600 \times 1.331$$

$$= 2129.6 \text{ Rs.}$$

S13. Ans.(a)

Sol. Let part of sum invested at 7% = x

Then part invested at 5% = $3600 - x$

ATQ,

$$\Rightarrow x \times 7 \times 1100 + 3600 - x \times 100 \times 5 = 204$$

$$\Rightarrow 7x + 18000 - 5x = 20400$$

$$\Rightarrow x = 1200$$

S14. Ans.(d)

Sol. Principal = 2500

Total interest earned in 2 year

$$= 2500 \times 1 + 20100 \times 2 - 1$$

$$= 1100$$

Interest earned in 2nd year = Two years Interest - First year Interest

$$= 1100 - 500$$

$$= 600$$

Difference between third- and second-year interest = Interest on 2nd year interest

$$= 600 \times 20100$$

$$= 120$$

S15. Ans.(e)

Sol. Let the amount be Rs x

ATQ

$$x \times 30100 - x \times 21100 = 432$$

$$x = \text{Rs } 4800$$

Quiz - 18

S1. Ans.(d)

Sol. Total distance = $9 \times 70 = 630$

$$\text{New speed} = \frac{630}{6} = 105 \text{ km/hr}$$

$$\text{Increase in speed} = \frac{105 - 70}{70} \times 100 = 50\%$$

S2. Ans.(e)

Sol. Distance = 180 meter

Time = 20 second

Relative speed of train and car

$$= \frac{180}{20} = 9 \text{ m/s}$$

Let speed of car = x m/s

So speed of train = $\frac{2}{3}x$ m/s

$$x - \frac{2}{3}x = 9 \text{ m/s}$$

$$x = 27 \text{ m/s}$$

$$\text{Speed of car in km/hr} = \frac{27 \times 18}{5} = 97.2 \text{ km/hr}$$

S3. Ans.(b)

Sol.

ATQ,

$$\frac{112}{x} = y \Rightarrow 112 = xy$$

Now x and y can be written as

(2, 56) (4, 28) (8, 14) (16, 7) or

(56, 2) (28, 4) (14, 8) (7, 16)

Hence two possible co-prime pairs are possible,

i.e. (7, 16) or (16, 7)

Hence it can't be determined

S4. Ans.(b)

Sol.

$$\text{Anurag's speed} = \frac{60}{10} = 6 \text{ km/hr}$$

$$\text{Dharam's speed} = \frac{60}{15} = 4 \text{ km/hr}$$

ATQ,

Let length of race be 'D' meters.

So,

$$\frac{D}{D-200} = \frac{6}{4}$$

$$\Rightarrow 2D = 1200$$

$$D = 600 \text{ m}$$

S5. Ans.(d)

Sol.

$$\text{Radius of wheel} = \frac{84}{2} \text{ cm} = 42 \text{ cm}$$

Distance travelled in one revolution

$$= 2\pi r = 2 \times \frac{22}{7} \times 42$$

$$= 264 \text{ cm}$$

Lets revolution made by wheel = X

So total distance travelled = distance travelled in X number of revolution

$$132 = \frac{264X}{40 \times 60}$$

$$X = \frac{132 \times 40 \times 60}{264}$$

$$X = 1200$$

S6. Ans. (d)

Sol.

In 15 seconds,

distance travelled by First car

$$= 15 \times 36 \times \frac{5}{18} = 150 \text{ m}$$

$$\text{Distance travelled by second car} = 15 \times 48 \times \frac{5}{18} = 200$$

$$\therefore \text{Required distance} = \sqrt{(150)^2 + (200)^2} = 250 \text{ m}$$

S7. Ans.(e)

Sol. Let the speed of the car be x kmph.

$$\text{So, } x - 38 = \left(\frac{40+60}{20}\right) \times \frac{18}{5} \text{ kmph}$$

$$\text{or, } x - 38 = 18$$

$$\therefore x = 56 \text{ kmph}$$

S8. Ans.(a)

Sol. Total distance covered by Vikash = $9+1=10$ km.

Time taken by Vikash = 10×6

$$= 60 \text{ min}$$

So, time taken by Mohit = $60-4=56$ min

Distance covered by Mohit = $9-1$

$$= 8 \text{ km}$$

$$\text{Speed of Mohit} = \frac{8}{56}$$

$$= \frac{1}{7} \text{ km/min.}$$

S9. Ans.(b)

Sol. Speed of train A = $\frac{400}{16} = 25$ m/sec

So, speed of train B = 25 m/sec

ATQ,

$$\frac{400+x}{25} = 24$$

$$x = 200 \text{ m}$$

Now time required to cross platform by B

$$= \frac{400+200+400}{25} = 40 \text{ sec}$$

S10. Ans.(c)

Sol. Let speed of train P = $4x$ m/sec

Let speed of Q = $5x$ m/sec

\therefore Length of train P = $4x \times 6 = 24x$ m

Length of train Q = $5x \times 4 = 20x$ m

A/Q,

$$\frac{24x+480}{4x} = 18$$

$$\Rightarrow x = 10$$

$$\therefore \text{Required time} = \frac{200+480}{50} = 13.6 \text{ sec}$$

S11. Ans.(e)

Sol. Using formula

$$D = \frac{s(s+V_1)}{V_1} \times t_1 = \frac{s(s-V_2)}{V_2} \times t_2$$

Where d is distance, s is original speed and v_1, v_2 are increased and decreased speed respectively

t_1, t_2 are time decreased and increased time respectively.

$$\frac{s(s+20)}{20} \times \frac{40}{60} = \frac{s(s-30)}{30} \times \frac{70}{60}$$

$$s = 330 \text{ km/h}$$

$$\text{Distance} = 330 \times \frac{(330+20)}{20} \times \frac{40}{60} = 3850 \text{ km}$$

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S12. Ans.(d)

Sol.

Let the length of train = x

and, the speed of train = s

ATQ,

$$\frac{x+100}{12} = s = \frac{3x}{21}$$

$$\frac{x+100}{12} = \frac{x}{7}$$

$$7x + 700 = 12x$$

$$5x = 700$$

$$x = 140$$

$$\text{Speed of train} = \frac{3 \times 140}{21} = 20 \text{ m/s}$$

S13. Ans.(c)

Sol.

Let upstream speed = x

Downstream speed = 11x

$$\text{Speed of boat} = \frac{1}{2}(x + 11x) = 30$$

$$\Rightarrow x = \frac{30 \times 2}{12} = 5$$

\Rightarrow upstream speed = 5 km/hr

Distance travelled in 5 hours in upstream = $5 \times 5 = 25$ km

S14. Ans.(b)

Sol.

Let speed of stream = s km/hr

$$\therefore (8 - s) \times 6 = (8 + s) \times 4$$

$$\Rightarrow 48 - 6s = 32 + 4s$$

$$\Rightarrow s = 1.6 \text{ km/hr}$$

S15. Ans.(a)

Sol.

Speed of boat in upstream = 17 kmph

Speed of river water = 3 kmph

So speed of boat in still water = $17 + 3 = 20$ kmph

So speed of boat in downstream = $20 + 3 = 23$ kmph

Quiz - 19

S1. Ans.(c)

Sol.

Let first term = a

Common difference = d

$$\text{Sum of 10 terms} = \frac{10}{2}[2a + (10-1)d]$$

$$\text{Average of sum} = \frac{1}{2}[2a + (10-1)d]$$

Now,

$$a + \frac{112.5a}{100} = \frac{1}{2} [2a + (10-1)d]$$

Solving we get, $a = 4d$

Sum of A.P = $85d$

Second term = $5d$

$$\text{Required \%} = \frac{5d}{85d} \times 100 = \frac{100}{17} \% = 5 \frac{15}{17} \%$$

S2. Ans.(b)

Sol. Let the fraction be $\frac{x}{y}$

ATQ,

$$\frac{2.5x}{0.75y} = \frac{8}{9}$$

$$\Rightarrow \frac{x}{y} = \frac{4}{15}$$

S3. Ans.(a)

Sol. Let the total number of students in the university be x

$$\text{Valid votes} = \frac{x \times 80}{100} - 120$$

$$= \frac{4x}{5} - 120$$

Atq,

$$\frac{3x}{8} + \left(\frac{3x}{8} - 30 \right) = \frac{4x}{5} - 120$$

$$\Rightarrow \frac{3x}{4} - 30 = \frac{4x}{5} - 120$$

$$x = 1800$$

$$\text{No. of students who do not cast their votes} = 1800 \times \frac{20}{100} = 360$$

S4. Ans(d)

Sol. Let son's present age be x yrs

So, his father's present age = $2x$ yrs

10 years ago, the ages would have been

$$2x - 10 = 3(x - 10)$$

$$2x - 10 = 3x - 30$$

$$x = 20 \text{ yrs}$$

So, their present ages are 20 yrs and 40 yrs

After 15 yrs, father's and son's ages will be 55 and 35

$$\text{Required ratio} = \frac{55}{35} = \frac{11}{7}$$

S5. Ans(b)

Sol. Let present age of ravi and shivam be m years and n years respectively

$$4 \text{ years ago, } m - 4 + n - 4 = 80$$

$$m + n = 88 \dots \dots (1)$$

$$\text{Also, } m - 14 = n - 4$$

$$m - n = 10 \dots \dots (2)$$

solving eqn (1) & (2), we get $m = 49$ years and $n = 39$ years

Present age of ravi = 49 years

S6. Ans(c)

Sol. let the smallest odd number be 'a' so next odd number be 'a+2' and so on

8th number = $a + (8 - 1) \times 2 = a + 14$ (using AP, nth term = $a + (n-1)d$)

$$\text{ATQ, } \frac{a+a+2+\dots+a+14}{8} = 10$$

$$8a + 56 = 80 \text{ (using sum of AP)}$$

$$a = \frac{80-56}{8} = 3$$

Since 'a' is smallest number, so smallest 4 numbers will be = 3, 5, 7, 9

$$\text{Required average} = \frac{3+5+7+9}{4} = 6$$

S7. Ans.(d)

Sol.

Sum of ages of all the 20 members = $20 \times 25 = 500$

Sum of ages of first 18 members = $18 \times 24 = 432$

Sum of ages of last 2 members = $500 - 432 = 68$

$$\therefore \text{Average age} = \frac{68}{2} = 34$$

S8. Ans (a)

Sol.

$$\text{Profit ratio of Amit to Hemant} = \frac{60000 \times 12 + 68000 \times 12 + 76000 \times 12 + 84000 \times 12}{80000 \times 24}$$

$$= 9:5$$

$$\text{So, difference between their profit} = 35000 \times \frac{9-5}{14}$$

$$= \text{Rs } 10000$$

S9. Ans.(b)

Sol.

Let investment of A, B, C be 2x, 5x and 7x respectively.

Let extra amount added by 'A' after six months be Rs. y

ATQ,

$$2x + y = \frac{1}{2} [5x + 7x]$$

$$2x + y = 6x$$

$$y = 4x$$

Ratio of profit share

$$\text{A} - \frac{2x \times 6 + (4x + 2x) \times 6}{5x \times 12} = 48 : 60 : 84$$

$$\text{B} - \frac{5x \times 12}{7x \times 12} = 4 : 5 : 7$$

$$\text{C} - \frac{7x \times 12}{7x \times 12} = 4 : 5 : 7$$

B's share of profit = Rs 4250

$$\Rightarrow 5 \rightarrow 4250$$

$$\Rightarrow 1 \rightarrow 850$$

$$\Rightarrow (4 + 5 + 7) = 16 \rightarrow 16 \times 850 = 13600$$

Total profit = Rs. 13600.

S10. Ans.(e)

Sol. Let, total quantity = 100ℓ

Quantity of milk = 60 ℓ

And quantity of milk = 40 ℓ

ATQ,

$$\frac{40}{100} = \frac{60}{100+x}$$

$$2(100 + x) = 5 \times 60$$

$$200 + 2x = 300$$

$$2x = 100$$

$$x = 50 \text{ ℓ}$$

$$\text{Water added in \%} = \frac{50}{100} \times 100$$

$$= 50\%$$

S11. Ans.(e)

Sol.

$$\text{SI for 2 years} = \frac{450}{3} \times 2 = 300$$

$$\text{And, S.I for 1 year} = \frac{450}{3} = 150 = \frac{PR}{100}$$

$$\text{CI for 2 years} = 309$$

$$\text{CI}_2 - \text{SI}_2 = \text{Rs. } 9$$

$$\text{Difference between C.I and S.I for 2 years} = \frac{PR^2}{100^2} = 9$$

$$\frac{PR \times R}{100} = 900$$

$$\Rightarrow R = \frac{900}{150} = 6\%$$

$$\text{CI}_2 - \text{SI}_2 = P \left(\frac{R}{100} \right)^2$$

$$9 = P \left(\frac{6}{100} \right)^2$$

$$P = \text{Rs. } 2500$$

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$$5x - 4x = 6$$

$$\Rightarrow x = 6$$

S12. Ans.(b)

Sol.

Let speed of stream = r km/h

A/q,

$$(8 - r) \times 5 = (8 + r) \times 3$$

$$\Rightarrow 40 - 5r = 24 + 3r$$

$$\Rightarrow r = \frac{16}{8} = 2 \text{ km/h}$$

S13. Ans.(c)

Sol.

We know work efficiency ratio of A to B = 5 : 4

Let time taken by A alone to complete the work = 4x

And by B to complete the work alone = 5x

Atq,

So, A alone can complete the work in 24 day
 And, B alone can complete the work in 30 day
 A and B working together can complete the work in
 $= \frac{1}{\frac{1}{30} + \frac{1}{24}} = \frac{120}{9} = 13\frac{1}{3}$ days

S14. Ans. (b)

Sol.

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

Total Distance = Length of bridge + Length of train

$$= 1 + \frac{1}{2} = \frac{3}{2} \text{ km}$$

$$\text{Speed} = \frac{\frac{3}{2}}{2 \times \frac{1}{60}} = \frac{3}{4} \times 60 = 45 \text{ kmph}$$

S15. Ans.(e)

Sol.

Let the amount be Rs x

ATQ

$$x \times 30100 - x \times 21100 = 432$$

$$x = \text{Rs } 4800$$

Quiz - 20

S1. Ans.(c)

Sol.

Let, C.P. of table = x

Person Sells table at a profit of 10%

$$\Rightarrow \text{S.P.} = 1.1x$$

ATQ,

$$\frac{120}{100} \left[\frac{95}{100} \right] \times x = 1.1x + 80$$

$$1.14x - 1.1x = 80$$

$$0.04x = 80$$

$$x = 2,000$$

S2. Ans.(c)

Sol.

1st C.P. \rightarrow 12000 Rs.

$$1^{\text{st}} \text{ S.P.} \rightarrow \frac{12000 \times 80}{100} = 9600 \text{ Rs.}$$

Now,

2nd C.P. \rightarrow 9600 Rs.

$$2^{\text{nd}} \text{ S.P.} \rightarrow \frac{9600 \times 130}{100} = 12480 \text{ Rs.}$$

Profit \Rightarrow 480 Rs.

S3. Ans.(e)

Sol.

Let selling C.P. of bike \rightarrow 100

Old S.P. \rightarrow 118

New S.P. after 10% increase \rightarrow $118 + 11.8 \rightarrow$ 129.8

Profit increase = $(129.8 - 118)$ units \Rightarrow 295

11.8 units \Rightarrow 295

1 unit \Rightarrow 25

New S.P. \Rightarrow $25 \times 129.8 = 3245$ Rs.

S4. Ans(e)

Sol.

Given, cost price of pen = x Rs. And SP= Rs 128

ATQ –

$$x \left(1 + \frac{(x-20)}{100} \right) = 128$$

$$100x + x^2 - 20x = 12800$$

$$x^2 + 80x - 12800 = 0$$

$$x^2 + 160x - 80x - 12800 = 0$$

$$x(x + 160) - 80(x + 160)$$

$$x = 80 \text{ Rs.}$$

For 40% profit Veer should sold the pen = $80 \times \frac{140}{100} = 112$ Rs.

S5. Ans(b)

Sol.

Let cost price of shirt = $100x$

So, cost price of jeans = $132.5x$

New cost price of jeans = $132.5x \times 1.3 = 172.25x$

Selling price of jeans = $172.25x \times 1.25 = 215.3125x$

$$\text{Cost price of jeans} = 4134 \times \frac{132.5x}{215.3125x}$$
$$= 2544 \text{ Rs.}$$

$$\text{Cost price of shirt} = 2544 \times \frac{100x}{132.5x} = 1920 \text{ Rs.}$$

$$\text{Marked price of shirt} = 1920 \times \frac{115}{100} = 2208 \text{ Rs.}$$

Alternate

Let cost price of jeans = $53x$

So, cost price of shirt = $40x$

New cost price of jeans = $53x \times 1.3 = 68.9x$

Selling price of jeans = $68.9x \times 1.25$

$$\text{So, } 4134 = 68.9x \times 1.25$$

$$x = 48$$

Cost price of shirt = $40 \times 48 = 1920$ Rs.

$$\text{Marked price of shirt} = 1920 \times \frac{115}{100} = 2208 \text{ Rs.}$$

S6. Ans.(a)

Sol. Let market price = $10x$

$$\begin{aligned}\text{Then selling price will be} &= 10x \times \frac{90}{100} \\ &= 9x\end{aligned}$$

$$\begin{aligned}\text{Cost price will be} &= \frac{9x \times 100}{108} \\ &= \frac{25x}{3}\end{aligned}$$

According to question market price will be of 4 article and cost price will be of 5 article.

$$\begin{aligned}\text{Required percentage} &= \frac{\frac{10x}{25x}}{\frac{4}{3 \times 5}} \times 100 \\ &= \frac{10x \times 3 \times 5}{25x \times 4} \times 100 \\ &= 150\%\end{aligned}$$

S7. Ans(a)

Sol.

Total cost price of quantity of tomatoes seller had = $230 \times 10 \times 100 = 230000$ Rs.

So, total selling price of quantity of tomatoes seller had, if he had to gain 15% profit = $230000 \times \frac{115}{100} = 264500$ Rs.

Total quantity of tomatoes available for selling = $230 \times \frac{80}{100} = 184$ quintals

Total selling price of half of 184 quintals of tomatoes which seller sold at Rs. 20 per kg = $184 \times \frac{1}{2} \times 20 \times 100 = 184000$ Rs.

So, seller had to sell the remaining tomatoes = $\frac{264500 - 184000}{92} \times \frac{1}{100}$
= 8.75 Rs./kg

S8. Ans.(b)

Sol.

Volume of cylinder = Volume of 'x' cubes

$$\frac{22}{7} \times 14 \times 14 \times 196 = x \times 7^3$$

$$\Rightarrow x = 352$$

S9. Ans.(d)

Sol.

Let radius of smaller & larger circles be r_1 & r_2 respectively.

$$2\pi r_1 = 132$$

$$r_1 = 21 \text{ m}$$

$$2\pi r_2 = 176 \Rightarrow r_2 = 28 \text{ m.}$$

∴ Required difference

$$\begin{aligned}&= \pi(r_2^2 - r_1^2) \\ &= \frac{22}{7} \times 49 \times 7\end{aligned}$$

$$= 1078 \text{ m}^2$$

S10. Ans.(d)

Sol.

$$\text{Curved surface area of cone} = \pi r \ell = 1.76 \text{ m}^2$$

$$\frac{22}{7} \times 70 \times \ell = 17600$$

$$\ell = 80$$

$$\begin{aligned} \text{Height of cone} &= \sqrt{80^2 - 70^2} \\ &= \sqrt{6400 - 4900} \\ &= \sqrt{1500} = 10\sqrt{15} \text{ cm} \end{aligned}$$

S11. Ans.(d)

Sol.

$$\text{Required probability} = \frac{{}^4C_2}{{}^7C_2}$$

$$= \frac{4 \times 3}{7 \times 6}$$

$$= \frac{2}{7}$$

S12. Ans.(a)

Sol.

$$\text{Required probability} = \frac{{}^5C_1 \times {}^7C_1 + {}^7C_2 \times {}^5C_0}{{}^{12}C_2}$$

$$= \frac{35+21}{66} = \frac{56}{66} = \frac{28}{33}$$

S13. Ans.(c)

$$\text{Sol. Favorable cases} = (1, 3, 5) = 3$$

$$\text{Possible cases} = 6$$

$$\therefore \text{Required probability} = \frac{3}{6} = \frac{1}{2}$$

S14. Ans.(c)

$$\text{Sol. Total number formed} = 6 \times 5 \times 4 \times 3 \times 2 = 720$$

S15. Ans.(a)

Sol.

$$\text{No. of ways} = {}^7C_5 \times {}^3C_2 = \frac{7 \times 6}{2 \times 1} \times 3 = 63$$

Quiz - 21

S1. Ans.(a)

Sol.

Required total

$$\frac{3}{4} \times 32 + \frac{3}{7} \times 35$$

$$= 24 + 15 = 39 \text{ lakhs}$$

S2. Ans.(c)

Sol. Required ratio

$$\frac{\frac{1}{6} \times 24 + \frac{1}{3} \times 12}{\frac{3}{7} \times 28 + \frac{3}{8} \times 16}$$
$$\frac{4+4}{12+6} = \frac{8}{18} = 4:9$$

S3. Ans.(b)

Sol. Male in M.P. in year 2011

$$\frac{4}{9} \times 18 = 8 \text{ lakhs}$$

Required difference

$$\frac{1}{8} \times 8 = 1 \text{ lakh}$$

S4. Ans.(d)

Sol. Required percentage

$$\frac{\frac{4}{7} \times 28 - \frac{5}{8} \times 16}{\frac{4}{7} \times 28} \times 100 = \frac{16-10}{16} \times 100 = \frac{600}{16} = 37.5\%$$

S5. Ans.(e)

Sol. 24% of males of state A.P. in year 2012

$$= \frac{24}{100} \times \frac{4}{5} \times 25,00,000$$

$$= 4,80,000$$

$$\therefore \text{Required percentage} = \frac{4,80,000}{35,00,000} \times 100 = 13.71\%$$

S6. Ans.(b)

Sol. Number of watches sold by shopkeeper P

$$= \frac{484}{22} \times 34$$

$$= 748$$

Number of shocks sold by shopkeeper T

$$= 1550$$

$$\therefore \text{Required difference} = 1550 - 748$$

$$= 802$$

S7. Ans.(a)

Sol. No. of watch & shoes sold by Q

$$= \frac{2304}{24} [48 + 28]$$

$$= \frac{2304}{24} [76]$$

$$= 96 \times 76$$

No. of watches & shoes sold by S

$$= \frac{1280}{40} \times 60$$

$$= 32 \times 60$$

$$\text{Required ratio} = \frac{96 \times 76}{32 \times 60} = \frac{19}{5}$$

S8. Ans.(c)

Sol.

No. of shoes sold by shopkeeper T

$$= \frac{1550}{25} \times 60$$

$$= 62 \times 60 = 3720$$

∴ Shoes sold by T which are not defective

$$= \frac{1}{5} \times 3720 = 744$$

S9. Ans.(b)

Sol.

Total product sold by shopkeeper S

$$= 100 \times \frac{1280}{(100-60)} = 3200$$

Total product sold by shopkeeper R

$$= 100 \times \frac{1040}{(100-80)} = 5200$$

∴ Required percentage

$$= \frac{2000}{5200} \times 100$$

$$\approx 38\%$$

S10. Ans.(e)

Sol.

Watches & shocks sold by R

$$= 1040 + \frac{1040}{20} \times 13$$

$$= 1040 + 676 = 1716$$

Watches and shoes sold by P

$$= \frac{484}{22} \times 78 = 1716$$

$$\text{Required \%} = \frac{1716}{1716} \times 100 = 100\%$$

S11. Ans.(e)

Sol.

Total no. of male students learning Indian Classical in schools P and S together

$$= \frac{5}{8} \times \frac{40}{100} \times 400 + \frac{3}{4} \times \frac{16}{100} \times 375$$

$$= 145$$

And total female students learning Indian Classical in same schools together

$$= \frac{3}{8} \times \frac{40}{100} \times 400 + \frac{1}{4} \times \frac{16}{100} \times 375$$

$$= 75$$

$$\therefore \text{Required ratio} = \frac{145}{75}$$

$$= \frac{29}{15}$$

S12. Ans.(d)

Sol.

Total students who are below 17 years from Q

$$= \frac{1}{9} \times \frac{24}{100} \times 225$$

$$= 6$$

∴ Females who are below 17 years

$$= \frac{1}{2} \times 6 = 3$$

∴ Required no. of females (≥ 17 years) = $18 - 3 = 15$

S13. Ans.(c)

Sol.

Required difference

$$= \frac{1}{3} \times \frac{24}{100} \times 225 + \frac{3}{5} \times \frac{20}{100} \times 525$$

$$= 18 + 63$$

$$= 81$$

S14. Ans.(b)

Sol.

Required average

$$= \frac{1}{3} \times \left(\frac{60}{100} \times 400 + \frac{76}{100} \times 225 + \frac{80}{100} \times 525 \right)$$

$$= \frac{1}{3} \times (240 + 171 + 420)$$

$$= 277$$

S15. Ans.(d)

Sol.

Total students in Q and S together

$$= \frac{24}{100} \times 225 + \frac{16}{100} \times 375$$

$$= 114$$

Total students in P and R together

$$= \frac{40}{100} \times 400 + \frac{20}{100} \times 525$$

$$= 265$$

∴ Required percentage

$$\frac{265 - 114}{265} \times 100$$

$$\approx 57\%$$

Quiz - 22

S1. Ans.(c)

Sol.

Required difference

$$\begin{aligned} &= \frac{(17+24)-(18+16)}{100} \times 33000 \\ &= (41-34) \times 330 \\ &= 2310 \end{aligned}$$

S2. Ans.(e)

Sol.

$$\begin{aligned} \text{Required difference} &= \frac{[43-(100-34-43)]}{100} \times \frac{17}{100} \times 33000 \\ &= \frac{20}{100} \times \frac{17}{100} \times 33000 \\ &= 1122 \end{aligned}$$

S3. Ans.(a)

Sol.

Required percentage

$$\begin{aligned} &= \frac{(12+17-16)}{16} \times 100 \\ &= \frac{13}{16} \times 100 \\ &= 81.25\% \end{aligned}$$

S4. Ans.(b)

Sol.

$$\text{Average population of A, C \& Y} = \frac{18+16+17}{3}$$

$$= 17\%$$

$$\text{Average population of B \& X} = \frac{24+12}{2}$$

$$= 18\%$$

Required difference

$$\begin{aligned} &= \frac{(18-17)}{100} \times 33000 \\ &= 330 \end{aligned}$$

S5. Ans.(d)

Sol.

Population of city C not doing govt. Job

$$\begin{aligned} &= \frac{(40+30)}{100} \times \frac{16}{100} \times 33000 \\ &= \frac{70}{100} \times \frac{16}{100} \times 33000 \\ &= 3696 \end{aligned}$$

S6. Ans(a)

$$\text{Sol. no. of valid votes cast in village B} = 10000 \times \frac{25}{100} \times \frac{80}{100} \times \frac{90}{100} = 1800$$

S7. Ans(d)

$$\text{Sol. total valid votes cast in village C} = 10000 \times \frac{20}{100} \times \frac{90}{100} = 1800$$

Let winning candidate got $x\%$ of votes cast and Losing Candidate got $(x-12)\%$ of votes cast.

Now, ATQ

$$x + x - 12 = 100$$

$$x = 56\%$$

$$\text{Votes obtained by losing candidate} = \frac{44}{100} \times 1800 = 792$$

S8. Ans(e)

$$\text{Sol. average registered voters of B,C,D} = \frac{(25+20+15)}{100} \times \frac{10000}{3} = 2000$$

S9. Ans(c)

Sol. votes cast -

$$A = 10000 \times \frac{20}{100} \times \frac{70}{100} = 1400$$

$$B = 10000 \times \frac{25}{100} \times \frac{65}{100} = 1625$$

$$D = 10000 \times \frac{15}{100} \times \frac{80}{100} = 1200$$

$$E = 10000 \times \frac{20}{100} \times \frac{75}{100} = 1500$$

Maximum voters cast their votes in village B.

S10. Ans(b)

$$\text{Sol. average number of registered voters from village A \& C} = \frac{10000}{2} \times \frac{20+20}{100} = 2000$$

$$\text{Average no. of registered voters from village B, D \& E} = \frac{10000}{3} \times \frac{(25+15+20)}{100} = 2000$$

$$\text{Required \%} = \frac{2000}{2000} \times 100 = 100\%$$

S11. Ans(d)

$$\text{Sol. total watches manufactured by Casio, Titan \& Sonata} = \frac{20+15+25}{100} \times 1000 = 600$$

$$\text{required average} = \frac{600}{3} = 200$$

S12. Ans(c)

$$\text{Sol. required ratio} = \frac{10+25}{100} \times 1000 : \frac{20+20}{100} \times 1000 = 7:8$$

S13. Ans(b)

$$\text{Sol. watches manufactured of Sonata} = \frac{25}{100} \times 1000 = 250$$

$$\text{Watches manufactured of Rado} = \frac{10}{100} \times 1000 = 100$$

$$\text{Required \%} = \frac{250-100}{100} \times 100 = 150\%$$

S14. Ans(e)

Sol. in next year

$$\text{No. of Titan watches manufactured} = \frac{110}{100} \times \frac{15}{100} \times 1000 = 165$$

$$\text{No. of Timex watches manufactured} = \frac{90}{100} \times \frac{10}{100} \times 1000 = 90$$

$$\text{Required difference} = 165 - 90 = 75$$

S15. Ans(b)

Sol. Average no. of watches manufactured = $\frac{1000}{6} = 166.67$

Watches manufactured

Casio = $\frac{20}{100} \times 1000 = 200$

Titan = $\frac{15}{100} \times 1000 = 150$

Sonata = $\frac{25}{100} \times 1000 = 250$

Timex = $\frac{10}{100} \times 1000 = 100$

Fossil = $\frac{20}{100} \times 1000 = 200$

Rado = $\frac{10}{100} \times 1000 = 100$

Required answer = Casio, Sonata, Fossil = 3

Quiz - 23

S1. Ans(d)

Sol. required difference = average marks scored by Student A - Average marks scored by Student B

$$\therefore \frac{70+90+60+55}{4} - \frac{50+80+75+65}{4} = \frac{5}{4} = 1.25$$

S2. Ans(c)

Sol. marks obtained by student A in Math and Computer together = $70 + 90 = 160$

marks obtained by student B in Science and English together = $75 + 65 = 140$

required ratio = $160:140 = 8:7$

S3. Ans(b)

Sol. Overall percentage marks of Student B = $\frac{50+80+75+65}{400} \times 100 = 67.5$

S4. Ans(c)

Sol. Marks Scored by Student A in Math = 70

Marks Scored by Student B in Science and English = $75 + 65 = 140$

Required % = $\frac{70}{140} \times 100 = 50$

S5. Ans(b)

Sol. A.T.Q, passing marks = $\frac{40}{100} \times 120 = 48$

\therefore required difference = $80 - 48 = 32$

S6. Ans(c)

Sol. amount received by Rohit = $4000 + \frac{4000 \times 10 \times 2}{100} = \text{Rs. } 4800$

S7. Ans(e)

Sol. interest amount received by Karan = $\frac{8000 \times 10 \times 2}{100} = \text{Rs. } 1600$

Interest amount received by Mahesh = $\frac{6000 \times 12 \times 4}{100} = \text{Rs. } 2880$

Required % = $\frac{2880 - 1600}{1600} \times 100 = 80\%$

S8. Ans(d)

$$\text{Sol. total interest amount received by Anurag \& Rohit together} = \frac{4000 \times 16 \times 4}{100} + \frac{4000 \times 10 \times 2}{100} = \text{Rs. } 3360$$

S9. Ans(a)

$$\text{Sol. interest received by Karan (SI)} = \frac{8000 \times 10 \times 2}{100} = \text{Rs. } 1600$$

$$\text{Interest received by Karan (CI)} = 8000 \left(1 + \frac{10}{100}\right)^2 - 8000 = \text{Rs. } 1680$$

$$\text{Required value} = 1680 - 1600 = \text{Rs. } 80$$

S10. Ans(e)

Sol.

$$\text{Interest received by Karan} = \frac{8000 \times 10 \times 2}{100} = \text{Rs. } 1600$$

$$\text{Interest received by Anurag} = \frac{4000 \times 16 \times 4}{100} = \text{Rs. } 2560$$

$$\text{Interest received by Mahesh} = \frac{6000 \times 12 \times 4}{100} = \text{Rs. } 2880$$

$$\text{Interest received by Rohit} = \frac{4000 \times 10 \times 2}{100} = \text{Rs. } 800$$

Clearly, Mahesh had received highest interest

S11. Ans(b)

Sol.

Number of Honda city car sold in Ahmedabad=320

Number of Innova car sold in Surat=480

$$\text{Required percentage} = \frac{320}{480} \times 100 = 66\frac{2}{3}\%$$

S12. Ans(d)

Sol. Total creta car sold in Delhi and Mohali together=420+280=700

Total innova car sold in Kolkata and Ahmedabad together=320+500=820

$$\text{Required ratio} = \frac{700}{820} = 35:41$$

S13. Ans(a)

Sol. total number of cars sold in Kolkata=320+360+460=1140

S14. Ans(e)

Sol. Total number of Honda city cars sold in delhi=540

Total number of creta cars sold in surat=450

Required difference=540 -450=90

S15. Ans(c)

Sol. Total number of Honda city car sold in all the cities together=460+320+340+540+420=2080

$$\text{Average} = \frac{2080}{5} = 416$$

Quiz - 24

S1. Ans.(b)

Sol. Total rooms booked in Oberai on Tuesday and Thursday = $280 + 520 = 800$

Total rooms books in Grand on Monday and Thursday = $280 + 720 = 1000$

Required percentage = $\frac{1000-800}{1000} \times 100 = 20\%$

S2. Ans.(d)

Sol. Total rooms booked in Oberai, Lodhi and Taj on Monday

= $360 + 260 + 640 = 1260$

Total rooms booked in Taj, Grand and Eros on Thursday

= $375 + 720 + 275 = 1370$

Required difference = $1370 - 1260 = 110$

S3. Ans.(a)

Sol.

Total room booked in Eros on Wednesday and Thursday = $265 + 275 = 540$

Total rooms booked in Lodhi on Thursday and Friday = $215 + 305 = 520$

Required ratio = $540 : 520$

= $27 : 26$

S4. Ans.(c)

Sol.

Average of room booked in Eros on Monday, Wednesday and Friday

= $\frac{155+265+315}{3}$

= 245

Average of room booked in 'Grand' on Monday & Friday

= $\frac{280+220}{2}$

= 250

Required sum = $245 + 250 = 495$

S5. Ans.(e)

Sol.

Required percent = $\frac{480-360}{360} \times 100 = 33\frac{1}{3}\%$

S6. Ans.(c)

Sol.

Required difference = $\frac{(16-12)}{100} \times 45000 = 1800$

S7. Ans.(a)

Sol.

Required average = $\frac{1}{3} \times (24 + 8 + 4) \times 450 = 5400$

S8. Ans.(d)

$$\text{Sol. Required percentage} = \frac{36-24}{24} \times 100 = 50\%$$

S9. Ans.(b)

$$\begin{aligned} \text{Sol. No. of candidates who are males who are selected from Etawah} \\ &= \frac{12}{100} \times \frac{80}{100} \times 45000 \\ &= 4,320 \end{aligned}$$

S10. Ans.(a)

$$\text{Sol. Required percentage} = \frac{8}{24} \times 100 = 33\frac{1}{3}\%$$

S11. Ans.(a)

$$\text{Sol. Required percentage} = \frac{45}{75} \times 100 = 60\%$$

S12. Ans.(b)

$$\begin{aligned} \text{Sol. Required average} &= \frac{1}{5} \times (64 + 60 + 72 + 40 + 84) \\ &= \frac{1}{5} \times 320 \\ &= 64 \end{aligned}$$

S13. Ans.(c)

$$\begin{aligned} \text{Sol. Required ratio} &= \frac{(80+60)}{(60+40)} \\ &= \frac{140}{100} = \frac{7}{5} \end{aligned}$$

S14. Ans.(d)

$$\begin{aligned} \text{Sol. Required difference} \\ &= (60 + 80 + 45 + 75 + 90) - (64 + 60 + 72 + 40 + 84) \\ &= 350 - 320 \\ &= 30 \end{aligned}$$

S15. Ans.(b)

$$\begin{aligned} \text{Sol. Required percentage} &= \frac{90-84}{90} \times 100 \\ &= \frac{100}{15} = \frac{20}{3}\% = 6\frac{2}{3}\% \end{aligned}$$

Quiz - 25

S1. Ans.(c)

Sol.

Let total production of the company be x

$$\begin{aligned} \therefore \text{Required percent} &= \frac{(.30x - 0.10x)}{0.30x} \times 100 \\ &= \frac{2}{3} \times 100 = 66\frac{2}{3}\% \text{ less} \end{aligned}$$

S2. Ans.(a)

Sol.

$$\begin{aligned}\text{Required difference} &= 30\% \text{ of } 1,20,000 - 20\% \text{ of } 1,20,000 \\ &= 12000\end{aligned}$$

S3. Ans.(e)

Sol.

Let total production be x

$$\text{Required ratio} = \frac{40\% \text{ of } x}{10\% \text{ of } x} = 4 : 1$$

S4. Ans.(d)

Sol.

Let total production be x

ATQ,

$$10\% \text{ of } x = 15000$$

$$\frac{x}{10} = 15000$$

$$x = 1,50,000$$

$$\begin{aligned}\text{Required average} &= \frac{10\% \text{ of } 1,50,000 + 50\% \text{ of } 1,50,000}{2} \\ &= \frac{15000 + 75000}{2} = 45000\end{aligned}$$

S5. Ans.(b)

Sol. Let total production of each previous years be x

$$\therefore \frac{30}{100}x = 12000$$

$$x = 40000$$

$$\begin{aligned}\text{Total production in 2018} &= \frac{110}{100} \times 40000 \\ &= 44000.\end{aligned}$$

S6. Ans.(a)

Sol.

$$\text{Total markers sold by Deepak} = 450 + 650 + 550 = 1650$$

$$\begin{aligned}\text{Total markers sold by Inder} &= 800 + 750 + 650 \\ &= 2200\end{aligned}$$

$$\begin{aligned}\text{Required \%} &= \frac{2200 - 1650}{2200} \times 100 \\ &= \frac{550}{2200} \times 100 \\ &= 25\%\end{aligned}$$

S7. Ans.(d)

$$\text{Sol. 'Y' markers sold by all the fives sellers} = 650 + 500 + 500 + 900 + 750 = 3300$$

$$\text{'Z' marker sold by all the five sellers} = 550 + 700 + 600 + 750 + 650 = 3250$$

$$\text{Required ratio} = \frac{3300}{3250} = \frac{66}{65}$$

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S8. Ans.(b)

$$\text{Sol. Average number of marker sold by Yogesh} = \frac{600+500+700}{3} = 600$$

$$\text{Average number of marker sold by Aman} = \frac{400+500+600}{3} = 500$$

$$\text{Required difference} = 600 - 500 = 100$$

S9. Ans.(e)

Sol.

$$\text{'X' type marker sold by Yogesh, Shubham and Aman together} = 600 + 750 + 400 = 1750$$

$$\text{'Z' type marker sold by Yogesh, Shubham and Inder together} = 700 + 750 + 650 = 2100$$

$$\text{Required \%} = \frac{2100-1750}{2100} \times 100$$

$$= 16\frac{2}{3}\%$$

S10. Ans.(c)

Sol. Required difference

$$= (450 + 650 + 550 + 600 + 500 + 700 + 400 + 500 + 600) - (750 + 900 + 750 + 800 + 750 + 650)$$

$$= 4950 - 4600 = 350$$

S11. Ans.(b)

Sol.

Total number of students registered for CGL

$$= 25 + 35 + 40 + 55 + 45$$

$$= 200$$

Total number of students registered for CHSL

$$= 20 + 30 + 35 + 45 + 20$$

$$= 150$$

$$\text{Required\%} = \frac{200 - 150}{150} \times 100$$

$$= \frac{50}{150} \times 100 = 33\frac{1}{3}\%$$

S12. Ans.(e)

Sol.

Total students registered for all the three exams in 2012 and 2013 together

$$= 15 + 25 + 20 + 25 + 35 + 30$$

$$= 150$$

Total students registered for all the three exams in 2014 and 2015 together

$$= 35 + 40 + 35 + 45 + 55 + 45$$

$$= 255$$

$$\text{Required ratio} = \frac{150}{255} = \frac{10}{17}$$

S13. Ans.(c)

Sol.

Average number of students registered for MTS exam

$$= \frac{15+25+35+45+40}{5} = \frac{160}{5} = 32$$

Average number of students registered for CHSL exam

$$= \frac{20+30+35+45+20}{5}$$

$$= \frac{150}{5} = 30$$

$$\text{Required difference} = 32 - 30 = 2$$

S14. Ans.(a)

Sol.

Total students registered for all the three exams in 2016

$$= 40 + 45 + 20$$

$$= 105$$

Number of appeared students

$$= \frac{80}{100} \times 105$$

$$= 84$$

Students appeared for MTS exam

$$= \frac{84}{7} \times 3$$

$$= 36$$

$$\text{Required \%} = \frac{36}{40} \times 100 = 90\%$$

S15. Ans.(d)

Sol.

Total number of students register for all exams

$$= 25 + 35 + 30$$

$$= 90 \text{ Lakh}$$

Required number of students

$$= 90 \times \frac{80}{100} \times \frac{75}{100} = 54 \text{ Lakh}$$

Quiz - 26

S1. Ans(a)

$$\text{Sol. Total 8 GB mobile phones sold by A} = (4000 + 3000) \times \frac{40}{100} - 4000 \times \frac{45}{100} = 1000$$

$$\text{Total 8 GB mobile phones sold by B} = (6000 + 4000) \times \frac{80}{100} - 6000 \times \frac{2}{3} = 4000$$

$$\text{Required percentage} = \frac{(1000+4000)}{10000} \times 100 = 50\%$$

S2. Ans(c)

Sol.

$$\text{Total unsold mobiles by B \& C} = (6000 + 4000) \times \frac{20}{100} + (5000 + 4000) \times \frac{40}{100}$$

$$= 2000 + 3600 = 5600$$

$$\text{Average} = \frac{5600}{2} = 2800$$

$$\text{Total sold mobiles by C} = (5000 + 4000) \times \frac{60}{100} = 5400$$

$$\text{Required difference} = 5400 - 2800 = 2600$$

S3. Ans(d)

Sol.

$$\text{Total 8GB mobiles sold by A} = (4000 + 3000) \times \frac{40}{100} \times \frac{2}{7} = 800$$

$$\text{Total 8GB mobiles sold by C} = (5000 + 4000) \times \frac{60}{100} \times \frac{4}{9} = 2400$$

$$\text{Required sum} = 800 + 2400 = 3200$$

S4. Ans(a)

Sol.

$$\text{Total unsold mobiles by A} = (4000 + 3000) \times \frac{60}{100} = 4200$$

$$\text{Total unsold mobiles by B} = (6000 + 4000) \times \frac{20}{100} = 2000$$

$$\text{Required percentage} = \frac{4200 - 2000}{2000} \times 100 = 110\%$$

S5. Ans(d)

Sol.

$$\text{Total sold mobiles by A} = (4000 + 3000) \times \frac{40}{100} = 2800$$

$$\text{Total sold mobiles by B} = (6000 + 4000) \times \frac{80}{100} = 8000$$

$$\text{Total sold mobiles by C} = (5000 + 4000) \times \frac{60}{100} = 5400$$

$$\text{Required average} = \frac{2800 + 8000 + 5400}{3}$$

$$= \frac{16200}{3} = 5400$$

S6. Ans(c)

Sol.

$$\text{Total complains unresolved in police stations A} = 9600 \times \frac{75}{100} = 7200$$

$$\text{Total complains unresolved in police stations C} = 4800 \times \frac{85}{100} = 4080$$

$$\text{Total complains unresolved in police stations E} = 8000 \times \frac{60}{100} = 4800$$

$$\text{Required average} = \frac{7200 + 4080 + 4800}{3}$$

$$= 5360$$

S7. Ans(d)

Sol.

$$\text{Total complain resolved in police station B} = 8400 \times \frac{30}{100} = 2520$$

$$\text{Total complain resolved in police station A \& D} = 9600 \times \frac{25}{100} + 6400 \times \frac{1}{8}$$

$$= 2400 + 800$$

$$= 3200$$

$$\text{Required percentage} = \frac{3200 - 2520}{3200} \times 100$$

$$= \frac{680}{3200} \times 100$$

$$= 21.25\%$$

S8. Ans(a)

Sol. Total number of complains resolved in police stations B & E

$$= 8400 \times \frac{30}{100} + 8000 \times \frac{40}{100}$$

$$= 2520 + 3200$$

$$= 5720$$

$$\text{Total complains unresolved in police station C} = 4800 \times \frac{85}{100} = 4080$$

$$\text{Required difference} = 5720 - 4080$$

$$= 1640$$

S9. Ans(b)

$$\text{Sol. Total complains resolved in police stations A \& D} = 9600 \times \frac{25}{100} + 6400 \times \frac{1}{8}$$

$$= 2400 + 800$$

$$= 3200$$

$$\text{Total complains unresolved in police station B} = 8400 \times \frac{70}{100} = 5880$$

$$\text{Required ratio} = \frac{3200}{5880}$$

$$= 80 : 147$$

S10. Ans(b)

Sol.

$$\text{Total complains unresolved in police station B} = 8400 \times \frac{70}{100} = 5880$$

$$\text{Total complains unresolved in police station E} = 8000 \times \frac{60}{100} = 4800$$

$$\text{Required percentage} = \frac{5880 - 4800}{4800} \times 100$$

$$= \frac{1080}{4800} \times 100$$

$$= 22.5\%$$

S11. Ans. (c)

$$\text{Sol. Number of Activa in A \& B together in 2019} = \left(6000 \times \frac{100-50}{100}\right) + \left(4000 \times \frac{100-25}{100}\right)$$

$$= 3000 + 3000$$

$$= 6000$$

$$\text{Number of Activa in D \& E together in 2018} = \left(8000 \times \frac{100-25}{100}\right) + \left(5000 \times \frac{100-20}{100}\right)$$

$$= 6000 + 4000$$

$$= 10000$$

$$\text{Required \%} = \frac{6000}{10000} \times 100$$

$$= 60\%$$

S12. Ans. (b)

$$\text{Sol. Average number of aviators in C, D \& E in 2018} = \frac{1}{3} \times \left(\left(6000 \times \frac{30}{100}\right) + \left(8000 \times \frac{25}{100}\right) + \right.$$

$$\left. \left(5000 \times \frac{20}{100}\right) \right)$$

$$= \frac{1}{3} \times (1800 + 2000 + 1000)$$

$$= 1600$$

$$\begin{aligned} \text{Average number of aviators in A \& D in 2019} &= \frac{1}{2} \times \left(\left(6000 \times \frac{50}{100} \right) + \left(10000 \times \frac{20}{100} \right) \right) \\ &= \frac{1}{2} \times (3000 + 2000) \\ &= 2500 \\ \text{Required difference} &= 2500 - 1600 \\ &= 900 \end{aligned}$$

S13. Ans. (e)

$$\begin{aligned} \text{Sol. Number of Activa in A, B \& C together in 2018} &= \left(\left(3000 \times \frac{100-40}{100} \right) + \left(2000 \times \frac{100-50}{100} \right) + \right. \\ &\left. \left(6000 \times \frac{100-30}{100} \right) \right) \\ &= 1800 + 1000 + 4200 \\ &= 7000 \end{aligned}$$

S14. Ans. (d)

$$\begin{aligned} \text{Sol. Number of Avaitor in C \& E together in 2019} &= \left(\left(9000 \times \frac{40}{100} \right) + \left(8000 \times \frac{60}{100} \right) \right) \\ &= 3600 + 4800 \\ &= 8400 \end{aligned}$$

$$\begin{aligned} \text{Number of Activa in D \& E together in 2019} &= \left(\left(10000 \times \frac{100-20}{100} \right) + \left(8000 \times \frac{100-60}{100} \right) \right) \\ &= 8000 + 3200 \\ &= 11200 \end{aligned}$$

$$\begin{aligned} \text{Required \%} &= \frac{11200-8400}{11200} \times 100 \\ &= 25\% \end{aligned}$$

S15. Ans. (a)

$$\begin{aligned} \text{Sol. Required number of Avaitor} &= \left(3000 \times \frac{40}{100} \right) + \left(2000 \times \frac{50}{100} \right) \\ &= 1200 + 1000 \\ &= 2200 \end{aligned}$$

Quiz - 27

Sol. (1-5):

Let total players in Asia = a

And, total players in Europe = b

$$\text{Total players in Crown in Asia} = a \times \frac{75}{4} \times \frac{1}{100} = \frac{3a}{16}$$

$$\text{Total players in Gold in Europe} = b \times \frac{200}{7} \times \frac{1}{100} = \frac{2b}{7}$$

$$\text{Given, } \frac{3a}{16} + \frac{2b}{7} = 210 \text{ ----- (i)}$$

$$\text{And } a + b = 900 \text{ -----(ii)}$$

So, from (i) and (ii),

Total players in Asia = 480

And total players in Europe = 420

$$\text{Total players in Crown in Europe} = \frac{400}{21} \times \frac{1}{100} \times 420 = 80$$

$$\text{Total players in Platinum in Asia} = \frac{1}{2} \times 480 = 240$$

$$\text{Now, total players in Gold in Asia} = 480 - \frac{3}{16} \times 480 - 240 = 150$$

$$\text{And total players in Platinum in Europe} = 420 - \frac{2}{7} \times 420 - 80 = 220$$

Levels	Asia	Europe
Platinum	240	220
Crown	90	80
Gold	150	120
Total	480	420

S1. Ans(d)

Sol.

$$\begin{aligned} \text{Required percentage} &= \frac{240 - 120}{120} \times 100 \\ &= 100\% \end{aligned}$$

S2. Ans(a)

Sol.

$$\begin{aligned} \text{Required ratio} &= \frac{80}{150} \\ &= 8 : 15 \end{aligned}$$

S3. Ans(e)

Sol.

$$\text{Total players in Platinum \& Crown in 'Middle east'} = 360 - 80 \times \frac{125}{100} = 260$$

$$\text{Required difference} = (240 + 90) - 260 = 70$$

S4. Ans(b)

Sol

$$\begin{aligned} \text{Required average} &= \frac{150 + 120}{2} \\ &= \frac{270}{2} = 135 \end{aligned}$$

S5. Ans(c)

$$\text{Sol. boys in platinum from both servers} = 240 \times \frac{5}{8} + 220 \times \frac{7}{11}$$

$$= 150 + 140$$

$$= 290$$

Sol (6-10):

Let amount invested by A be Rs.100x.

$$\text{So, amount invested by B} = \frac{150}{100} \times 100x = \text{Rs.150x}$$

$$\text{And, amount invested by D} = 100x \times \frac{100}{80} = \text{Rs.125x}$$

$$\text{Now, amount invested by C} = \frac{40}{100} \times 125x \\ = \text{Rs.50x}$$

$$\text{And, amount invested by E} = 50x \times \frac{4}{1} \\ = \text{Rs.200x}$$

ATQ,

$$\frac{100x+200x}{2} = 30,000$$

$$x = 200$$

Person	Amount invested (in Rs.)
A	20,000
B	30,000
C	10,000
D	25,000
E	40,000

S6. Ans. (b)

$$\text{Sol. Required amount} = 30,000 + 10,000 \\ = \text{Rs.40,000}$$

S7. Ans. (c)

$$\text{Sol. Required average} = \frac{10,000+25,000+40,000}{3} \\ = \text{Rs.25,000}$$

S8. Ans. (a)

$$\text{Sol. Required interest} = \frac{\left(\frac{60}{100} \times 25,000\right) \times 12 \times 2}{100} \\ = \text{Rs.3,600}$$

S9. Ans. (e)

$$\text{Sol. Required ratio} = \frac{20,000+30,000}{10,000+40,000} \\ = 1:1$$

S10. Ans. (b)

$$\text{Sol. Required amount} = 30,000 \times \left(1 + \frac{20}{100}\right)^2 \\ = \text{Rs.43,200}$$

Sol.(11-15)

Let the total work = 108 unit (LCM of 36 & 54)

So, the efficiency of Veer = $\frac{108}{36} = 3 \text{ unit/day}$

The efficiency of Ayush = $\frac{108}{54} = 2 \text{ unit/day}$

Now, the efficiency of Shivam = $3 \times \frac{100-50}{100} = 1.5 \text{ unit/day}$

So, time taken by shivam to complete same work alone = $\frac{108}{1.5} = 72 \text{ days}$

So, time taken by Anurag to complete same work alone = $72 - 45 = 27 \text{ days}$.

Efficiency of Anurag = $\frac{108}{27} = 4 \text{ unit/day}$

S11. Ans. (b)

Sol. Required days = 72 days.

S12. Ans. (d)

Sol.

Required days = $\frac{108}{(4+2)} = 18 \text{ days}$.

S13. Ans. (b)

Sol.

Required ratio = 3 : 4

S14. Ans. (e)

Sol.

We know wage are given in the ratio of their efficiency.

So, wage share of Anurag = $21000 \times \frac{4}{3+2+1.5+4} = \text{Rs.}8000$

S15. Ans. (b)

Sol.

Efficiency of Deepak = $\frac{75}{100} \times 4 = 3 \text{ unit/day}$

Required days = $\frac{2 \times 108}{3} = 72 \text{ days}$.

Quiz - 28

S1. Ans (c)

Sol. required ratio = $\frac{7500}{5000 \times \frac{50}{100}} = \frac{7500}{2500}$

= 3 : 1

S2. Ans (d)

Sol. average of passed students from school A and C = $\frac{6000 \times \frac{70}{100} + 8000 \times \frac{60}{100}}{2}$

= $\frac{4200 + 4800}{2} = 4500$

So, required difference = $7500 - 4500 = 3000$

S3. Ans (b)

$$\begin{aligned}\text{Sol. required percentage} &= \frac{8000 \times \frac{40}{100}}{6000 \times \frac{80}{100}} \times 100 = \frac{3200}{4800} \times 100 \\ &= \frac{200}{3} \% = 66\frac{2}{3} \%\end{aligned}$$

S4. Ans (a)

Sol. From graph it is clearly visible that the maximum no. of students passed in school B
i.e., $7500 \times \frac{90}{100} = 6750$

S5. Ans (e)

$$\begin{aligned}\text{Sol. required average} &= \frac{6000 \times \frac{70}{100} + 8000 \times \frac{60}{100} + 6000 \times \frac{80}{100}}{3} = \frac{4200 + 4800 + 4800}{3} \\ &= \frac{13800}{3} = 4600\end{aligned}$$

S6. Ans(b)

Sol.

Let total labor working in 2013 = $100x$

Total child labor working in 2013 = $28x$

ATQ -

$$28x \times \left(\frac{4}{7} - \frac{3}{7} \right) = 48$$

$$4x = 48$$

$$x = 12$$

$$\text{Required difference} = 1200 \times \left(\frac{40}{100} - \frac{32}{100} \right) = 96$$

S7. Ans(e)

Sol.

Let total labors working in 2011 = $500y$

So, total labors working in 2015 = $600y$

$$\text{Total female labor working in 2015} = 600y \times \frac{24}{100} = 144y$$

$$\text{Total child labors working in 2011} = 500y \times \frac{20}{100} = 100y$$

$$\text{Required percentage} = \frac{144y - 100y}{100y} \times 100$$

$$= 44\%$$

S8. Ans(c)

Sol. Let total labors working in 2011 = x

And, total labors working in 2012 = y

Total male labors working in 2011 = $0.5x$

And, total male labors working in 2012 = $0.48y$

ATQ -

$$\frac{0.5x}{0.48y} = \frac{5}{4}$$

$$x : y = 6 : 5$$

$$\text{so, } y = \frac{5x}{6}$$

ATQ -

$$x + \frac{5x}{6} = 2200$$

$$x = 1200$$

$$y = 1000$$

$$\text{Total child labors working in 2011 \& 2012 together} = 1200 \times \frac{20}{100} + 1000 \times \frac{20}{100} = 440$$

S9. Ans(c)

Sol.

$$\text{Total child labor working in 2014} = \frac{2000}{25} = 80$$

$$\text{Total male labors working in 2014} = 80 \times \frac{60}{10} = 480$$

$$\text{Total child labor working in 2015} = 80 + 220 = 300$$

$$\text{Total male labors working in 2015} = 300 \times \frac{56}{20} = 840$$

$$\text{Required ratio} = \frac{480}{840} = 4 : 7$$

S10. Ans(e)

Sol.

Let total labors working in 2011, 2012 and 2013 be $80a$, $100a$ & $50a$ respectively

$$\text{Total female labors working in 2011} = 80a \times \frac{30}{100} = 24a$$

$$\text{Total female labors working in 2012} = 100a \times \frac{32}{100} = 32a$$

$$\text{Total female labors working in 2013} = 50a \times \frac{32}{100} = 16a$$

ATQ -

$$24a + 32a + 16a = 720$$

$$72a = 720$$

$$a = 10$$

Total number of child labors working in 2011, 2012 and 2013

$$= 800 \times \frac{20}{100} + 1000 \times \frac{20}{100} + 500 \times \frac{28}{100}$$

$$= 160 + 200 + 140$$

$$= 500$$

S11. Ans(a)

$$\text{Sol. Incentive given to HR department} = \frac{35}{100} \times 50000 = \text{Rs } 17500$$

$$\text{Incentive to each employee in HR} = \frac{17500}{60} = \text{Rs } 291.67$$

S12. Ans(c)

$$\text{Sol. required ratio} = \frac{\frac{15}{100} \times 50000}{80} : \frac{\frac{20}{100} \times 50000}{60} = 9 : 16$$

S13. Ans(b)

$$\text{Sol. required average} = \frac{10+20+20}{100} \times \frac{50000}{3} = 8333.33$$

S14. Ans(e)

$$\text{Sol. per employee incentive in Content department} = \frac{10}{100} \times \frac{50000}{150} = \text{Rs } 33.33$$

$$\text{Per employee incentive given in HR department} = \frac{35}{100} \times \frac{50000}{60} = \text{Rs } 291.67$$

$$\text{Required \%} = \frac{291.67-33.33}{291.67} \times 100 = 88.57\% \approx 89\%$$

S15. Ans(b)

Sol. per employee incentive

$$\text{HR} = \frac{35}{100} \times \frac{50000}{60} = \text{Rs } 291.67$$

$$\text{Content} = \frac{10}{100} \times \frac{50000}{150} = \text{Rs } 33.33$$

$$\text{Blogging} = \frac{15 \times 50000}{80} = \text{Rs } 93.75$$

$$\text{SEO} = \frac{20}{100} \times \frac{50000}{60} = \text{Rs } 166.67$$

$$\text{DTP} = \frac{20}{100} \times \frac{50000}{70} = \text{Rs } 142.86$$

Per employee incentive given is maximum for HR department employees

Quiz - 29

S1. Ans(d)

$$\text{Sol. required answer} = 1000 \times \left(\frac{10}{100} \times \frac{3}{5} + \frac{15}{100} \times \frac{8}{15} \right) = 140$$

S2. Ans(c)

$$\text{Sol. required ratio} = \left(\frac{20}{100} \times 1000 \times \frac{1}{2} \right) + \left(\frac{25}{100} \times 1000 \times \frac{13}{25} \right) : \left(\frac{30}{100} \times 1000 \times \frac{13}{30} \right) \\ = 23 : 13$$

S3. Ans(a)

$$\text{Sol. duffel bags produced by company B} = \frac{10}{100} \times 1000 \times \frac{3}{5} = 60$$

$$\text{Backpacks produced by company D} = \frac{25}{100} \times 1000 \times \frac{13}{25} = 130$$

$$\text{Required \%} = \frac{60}{130} \times 100 = 46 \frac{2}{13}\%$$

S4. Ans(e)

$$\text{Sol. required average} = \frac{\frac{15}{100} \times 1000 \times \frac{7}{15} + \frac{25}{100} \times 1000 \times \frac{13}{25}}{2} = \frac{200}{2} = 100$$

S5. Ans(b)

$$\text{Sol. bags produced by company B \& E together} = \frac{10+30}{100} \times 1000 = 400$$

$$\text{Duffel bags produced by company A, D \& E together} = \frac{20}{100} \times 1000 \times \frac{1}{2} + \frac{25}{100} \times 1000 \times \frac{12}{25} + \\ \frac{30}{100} \times 1000 \times \frac{13}{30} = 350$$

$$\text{Required \%} = \frac{400}{350} \times 100 = 114 \frac{2}{7}\%$$

S6. Ans(c)

Sol.

$$\text{Total number of male employees in company E} = 5400 \times \frac{22}{100} \times \frac{2}{3} = 792$$

$$\text{Total number of female employees in company D} = 5400 \times \frac{20}{100} \times \frac{3}{5} = 648$$

$$\text{Required ratio} = \frac{792}{648} = 11 : 9$$

S7. Ans(a)

$$\text{Sol. Total number of male employees in company A} = 5400 \times \frac{18}{100} \times \frac{2}{3} = 648$$

$$\text{Total number of female employees in company E} = 5400 \times \frac{22}{100} \times \frac{1}{3} = 396$$

$$\text{Required percentage} = \frac{648}{396} \times 100 = 163.63 \%$$

$$= 164\% \text{ (approx.)}$$

S8. Ans(b)

$$\text{Sol. total male employees in company B,C and D together} = 5400 \times \frac{28}{100} \times \frac{3}{4} + 5400 \times \frac{12}{100} \times \frac{1}{3} + 5400 \times \frac{20}{100} \times$$

$$\frac{2}{5} = 1134 + 216 + 432$$

$$= 1782$$

$$\text{Required percentage} = \frac{1782}{5400} \times 100 = 33\%$$

S9. Ans(d)

Sol.

Total female employees in all the 5 companies together

$$= 5400 \times \frac{18}{100} \times \frac{1}{3} + 5400 \times \frac{28}{100} \times \frac{1}{4} + 5400 \times \frac{12}{100} \times \frac{2}{3} + 5400 \times \frac{20}{100} \times \frac{3}{5} + 5400 \times \frac{22}{100} \times \frac{1}{3}$$

$$= 324 + 378 + 432 + 648 + 396$$

$$= 2178$$

S10. Ans(e)

Sol.

$$\text{Central angle of total employees from company B and D together} = (28 + 20) \times \frac{360}{100}$$

$$= 172.8^\circ$$

S (11-15):

Let the number of students in class IX be x

Number of boys in class VIII = $0.5x$

Number of boys in class IX = $0.4x$

Number of girls in class IX = $0.6x$

Number of boys in class VI = $(0.6x + 10)$ = Number of girls in class VIII

Number of girls in class VII = $(0.6x + 10) \times \frac{6}{5} = (0.72x + 12)$

Number of boys in class VII = $(0.6x + 10) \times 0.8 = (0.48x + 8)$

Number of girls in class VI = $(0.48x + 8) \times 1.75 = (0.84x + 14)$

ATQ

$$x = 0.75 \times (0.72x + 12 + 0.48x + 8)$$

$$0.1x = 15$$

$$x = 150$$

Class	Students	Girls	Boys
VI	240	140	100
VII	200	120	80
VIII	175	100	75
IX	150	90	60

S11. Ans(c)

Sol.

$$\text{Required \%} = \frac{50}{100} \times 100 = 50\%$$

S12. Ans(b)

Sol.

$$\text{Required difference} = (140 + 120 + 100 + 90) - (240 + 200) = 10$$

S13. Ans(e)

Sol.

$$\text{Required average} = \frac{240+200+175}{3} = 205$$

S14. Ans(a)

Sol.

Total number of girls in all the given classes = 450

Total number of boys in all the given classes = 315

$$\text{Required percent} = \frac{135}{450} \times 100 = 30\%$$

S15. Ans(a)

Sol.

$$\text{Required percent} = \frac{315}{765} \times 100 \approx 41\%$$

Quiz - 30

S1. Ans(a)

Sol.

Let total income = $100x$

ATQ -

$$100x \times \left(\frac{25}{100} \times \frac{20}{100} + \frac{30}{100} \times \frac{40}{100} \right) = 40800$$

$$17x = 40800$$

$$x = 2400$$

$$\text{Income of C} = 240000 \times \frac{30}{100} = 72000 \text{ Rs.}$$

S2. Ans(b)

Sol. Let total income in 2016 = $100n$

$$\text{Total income of B \& D in the year 2016} = 100n \times \left(\frac{35}{100} + \frac{10}{100} \right) = 45n$$

$$\text{Total income of B \& D in the year 2017} = 100n \times \left(\frac{35}{100} \times \frac{120}{100} + \frac{10}{100} \times \frac{140}{100} \right) = 56n$$

$$\text{Required ratio} = \frac{45n}{56n} = 45 : 56$$

S3. Ans(d)

Sol. Let total income = $100b$

And total expenditure of each A & B be 'E'

ATQ -

$$\text{Required percent} = \frac{(35b - E) - (25b - E)}{10b} \times 100$$

$$= \frac{10b}{10b} \times 100 = 100\%$$

S4. Ans(b)

Sol. Let total income = $100x$

ATQ -

$$25x - 10x = 30000$$

$$x = 2000$$

$$\text{Required difference} = 200000 \left(\frac{35}{100} \times \frac{140}{100} - \frac{30}{100} \times \frac{120}{100} \right) = 26000 \text{ Rs.}$$

S5. Ans(c)

Sol. Let total income = $100x$

Total income of A & D = $35x$

$$\text{Required angle} = \frac{35x}{100x} \times 360 = 126^\circ$$

S6. Ans(a)

Sol.

$$\begin{aligned} \text{Books printed by publisher B in year 2015 and 2016} &= 7500 \times \frac{60}{100} + 9000 \times \frac{55}{100} \\ &= 4500 + 4950 = 9450 \end{aligned}$$

$$\text{Total books printed by publisher A in year 2013} = 6000 \times \frac{60}{100} = 3600$$

$$\text{Required percentage} = \frac{9450 - 3600}{3600} \times 100$$

$$= 162.5\%$$

S7. Ans(d)

Sol.

Books printed by publisher A in year 2013, 2015 and 2016

$$= 6000 \times \frac{60}{100} + 7500 \times \frac{40}{100} + 9000 \times \frac{45}{100}$$

$$= 3600 + 3000 + 4050$$

$$= 10650$$

$$\text{Required average} = \frac{10650}{3} = 3550$$

S8. Ans(c)

Sol.

$$\text{Total books printed by A in the year 2018} = 8000 \times \frac{1}{2} = 4000$$

$$\text{Books printed by B in the year 2018} = 4000 \times \frac{3}{5} = 2400$$

$$\text{Books printed by A in the year 2015} = 7500 \times \frac{40}{100} = 3000$$

$$\text{Required difference} = 3000 - 2400 = 600$$

S9. Ans(e)

Sol.

$$\text{Cost of one book printed in 2016 by publisher A} = 350 \times \frac{4}{5} = 280 \text{ Rs.}$$

$$\begin{aligned} \text{Total cost price of all the books which is sold by publisher A in 2016} &= 9000 \times \frac{45}{100} \times 280 \\ &= 11,34,000 \text{ Rs.} \end{aligned}$$

S10. Ans(d)

Sol.

$$\begin{aligned} \text{Total books printed by publisher A in 2014 and 2017} &= 8000 \times \frac{25}{100} + 5000 \times \frac{35}{100} \\ &= 2000 + 1750 = 3750 \end{aligned}$$

$$\text{Total books printed by publisher B in the year 2016} = 9000 \times \frac{55}{100} = 4950$$

$$\text{Required ratio} = \frac{3750}{4950} = 25 : 33$$

S1. Ans.(d)

$$\begin{aligned} \text{Sol. Number of male employees in company - A and C together} &= 45000 \times \frac{60}{100} + 60000 \times \frac{50}{100} \\ &= 27000 + 30000 \\ &= 57000 \end{aligned}$$

$$\text{Required \%} = \frac{57000 - 30000}{30000} \times 100 = 90\%$$

S12. Ans.(b)

$$\begin{aligned} \text{Sol. Female employees of company - A and B together} &= 45000 \times \frac{40}{100} + 30000 \times \frac{45}{100} \\ &= 18000 + 13500 = 31500 \end{aligned}$$

$$\begin{aligned} \text{Male employees of company - B and D together} &= 30000 \times \frac{55}{100} + 50000 \times \frac{45}{100} \\ &= 16500 + 22500 = 39000 \end{aligned}$$

$$\text{Required ratio} = \frac{31500}{39000} = \frac{21}{26} = 21 : 26$$

S13. Ans.(d)

$$\text{Sol. Male employees of company - E} = 40000 \times \frac{65}{100} = 26000$$

$$\begin{aligned} \text{Total female employees in company A, B and C} &= 45000 \times \frac{40}{100} + 30000 \times \frac{45}{100} + 60000 \times \frac{50}{100} \\ &= 18000 + 13500 + 30000 = 61500 \end{aligned}$$

$$\text{Required difference} = 26000 - \frac{61500}{3} = 26000 - 20500 = 5500$$

S14. Ans.(a)

$$\text{Sol. Male employees of company - F} = 45000 \times \frac{60}{100} \times \frac{130}{100} = 35100$$

$$\text{Female employees of company - F} = 40000 \times \frac{35}{100} \times \frac{200}{100} = 28000$$

$$\text{Total employees of company - F} = 28000 + 35100 = 63100$$

$$\text{Required difference} = 63100 - 50000 = 13100$$

S15. Ans.(c)

$$\text{Sol. Male employees of company - B} = 30000 \times \frac{55}{100} = 16500$$

$$\text{Total female employees of company - A and C} = 45000 \times \frac{40}{100} + 60000 \times \frac{50}{100}$$
$$= 18000 + 30000 = 48000$$

$$\text{Required \%} = \frac{48000 + 16500}{40000 + 50000} \times 100 = \frac{64500}{900} \% = 71 \frac{2}{3} \%$$

Quiz - 31

S1. Ans. (b)

$$\text{Sol. } \frac{?}{100} \times 350 - 361 + 1260 = 1032$$

$$\frac{?}{100} \times 350 = 1032 - 899$$

$$? = 38$$

S2. Ans. (a)

$$\text{Sol. } (?)^2 = 39 + 420 + 217$$

$$(?)^2 = 676$$

$$? = 26$$

S3. Ans. (d)

$$\text{Sol. } \frac{46}{100} \times 1500 + \frac{36}{100} \times 750 = ? + 420$$

$$? = 690 + 270 - 420$$

$$? = 540$$

S4. Ans. (d)

$$\text{Sol. } ? \times 13 = \frac{161}{6} \times \frac{156}{23}$$

$$? = \frac{182}{13}$$

$$? = 14$$

S5. Ans. (c)

$$\text{Sol. } \frac{?+26}{100} \times 1200 = 500 - 20$$

$$? + 26 = \frac{480}{12}$$

$$? = 14$$

S6. Ans. (d)

$$\text{Sol. } \frac{640}{?} = (3375 - 2700) \times \frac{1}{33.75}$$

$$\frac{640}{?} = 20$$

$$? = 32$$

S7. Ans. (b)

$$\text{Sol. } ?^2 = \frac{85}{100} \times 280 + 34 - 224 + 96$$

$$?^2 = 144$$

$$? = 12$$

S8. Ans. (b)

$$\text{Sol. } 39 + 441 - 90 = 5 \times ?$$

$$5 \times ? = 390$$

$$? = 78$$

S9. Ans. (a)

$$\text{Sol. } (?)^2 = \frac{48}{100} \times 800 + \frac{125}{100} \times 1200 - 120$$

$$(?)^2 = 384 + 1500 - 120$$

$$(?)^2 = 1764$$

$$? = 42$$

S10. Ans. (b)

$$\text{Sol. } \frac{?}{100} \times 700 = 1166 - 18$$

$$? = \frac{1148}{7}$$

$$? = 164$$

S11. Ans(d)

$$\text{Sol. } \frac{40}{100} \times 285 + \frac{60}{100} \times 175 \approx ? \times 73$$

$$114 + 105 \approx 73 \times ?$$

$$? \approx 3$$

S12. Ans(e)

$$\text{Sol. } 379 - \frac{20}{100} \times 770 \approx (? + 6)^2$$

$$379 - 154 \approx (? + 6)^2$$

$$225 \approx (? + 6)^2$$

$$? \approx 9$$

S13. Ans(b)

$$\text{Sol. } (223 + 227) \div 9 \approx ? \times 10$$

$$50 \approx ? \times 10$$

$$? \approx 5$$

S14. Ans(a)

$$\text{Sol. } \sqrt{1444} - \sqrt{841} \approx \sqrt{?} - \sqrt{324}$$

$$38 - 29 \approx \sqrt{?} - 18$$

$$\sqrt{?} \approx 27$$

$$? \approx 729$$

BILINGUAL



SBI PO
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S15. Ans(e)

Sol. $10 \times 100 \times 1000 \approx 10000 \times ?$

$? \approx 100$

Quiz - 32

S1. Ans(d)

Sol. Here the pattern is:

$$9^3 - 1 = 728$$

$$8^3 + 1 = 513$$

$$7^3 - 1 = 342$$

$$6^3 + 1 = 217$$

$$5^3 - 1 = 124$$

$$? = 4^3 + 1 = \mathbf{65}$$

S2. Ans(e)

Sol. Here the pattern is:

$$26 \times 2 = 52$$

$$52 \times 3 = 156$$

$$156 \times 4 = 624$$

$$? = 624 \times 5 = \mathbf{3120}$$

$$3120 \times 6 = 18720$$

S3. Ans(c)

Sol. Here the pattern is:

$$1 + 1 = 2$$

$$2 + 3 = 5$$

$$5 + 5 = 10$$

$$10 + 7 = 17$$

$$? = 17 + 9 = \mathbf{26}$$

S4. Ans(a)

Sol. Here the pattern is:

$$137 - 13 = 124$$

$$124 - 15 = 109$$

$$109 - 17 = 92$$

$$92 - 19 = 73$$

$$? = 73 - 21 = \mathbf{52}$$

S5. Ans(e)

Sol.

Pattern of series -

$$16 \times 5 + 5 = 85$$

$$85 \times 4 + 4 = 344$$

$$? = 344 \times 3 + 3 = \mathbf{1035}$$

$$1035 \times 2 + 2 = 2072$$

$$2072 \times 1 + 1 = 2073$$

S6. Ans(a)

Sol.

Wrong number = 104

Pattern of series -

$$12 + 27 = 39$$

$$39 + 24 = 63$$

$$63 + 27 = 90$$

$$90 + 24 = 114$$

$$114 + 27 = 141$$

$$141 + 24 = 165$$

So, 114 should come in the place of 104

S7. Ans(d)

Sol.

Wrong number = 562

$$13 + 3^3 = 40$$

$$40 + 4^2 = 56$$

$$56 + 5^3 = 181$$

$$181 + 6^2 = 217$$

$$217 + 7^3 = 560$$

$$560 + 8^2 = 624$$

So, 560 should come in the place of 562.

S8. Ans(c)

Sol.

Wrong number = 134

Pattern of series -

$$112 + 16 = 128$$

$$128 - 20 = 108$$

$$108 + 24 = 132$$

$$132 - 28 = 104$$

$$104 + 32 = 136$$

$$136 - 36 = 100$$

So, should be 136 come in the place of 134.

S9. Ans(d)

Sol.

Wrong number = 255

Pattern of series -

$$120 = 11^2 - 1$$

$$145 = 12^2 + 1$$

$$168 = 13^2 - 1$$

$$197 = 14^2 + 1$$

$$224 = 15^2 - 1$$

$$16^2 + 1 = 257$$

$$288 = 17^2 - 1$$

So, should be 257 come in the place of 255.

S10. Ans(d)

Sol.

Wrong number = 920

Pattern of series -

$$5 \times 1 + 1 = 6$$

$$6 \times 2 + 2 = 14$$

$$14 \times 3 + 3 = 45$$

$$45 \times 4 + 4 = 184$$

$$184 \times 5 + 5 = 925$$

$$925 \times 6 + 6 = 5556$$

So, 925 should come in the place of 920.

S11. Ans(b)

Sol. Here the pattern is:

$$111+96 = 207$$

$$207+95 = 302$$

$$302+94 = 396$$

$$396+93 = 489$$

$$? = 489+92 = \mathbf{581}$$

S12. Ans(d)

Sol. Here the patten is:

$$10^2 + 1 = 101$$

$$9^2 + 1 = 82$$

$$8^2 + 1 = 65$$

$$7^2 + 1 = 50$$

$$6^2 + 1 = 37$$

$$5^2 + 1 = \mathbf{26}$$

Or -

$$101 - 19 = 82$$

$$82 - 17 = 65$$

$$65 - 15 = 50$$

$$50 - 13 = 37$$

$$? = 37 - 11 = 26$$

S13. Ans(e)

Sol. Here the pattern is:

$$40 \times 1.5 = 60$$

$$60 \times 2 = 120$$

$$120 \times 2.5 = 300$$

$$300 \times 3 = 900$$

$$? = 900 \times 3.5 = \mathbf{3150}$$

S14. Ans(a)

Sol. Here the pattern is:

$$1012 - 67 = 945$$

$$945 - 67 = 878$$

$$878 - 67 = 811$$

$$811 - 67 = 744$$

$$? = 744 - 67 = \mathbf{677}$$

S15. Ans(b)

Sol. Here the pattern is:

$$13122 \div 3 = 4374$$

$$4374 \div 3 = 1458$$

$$1458 \div 3 = 486$$

$$486 \div 3 = 162$$

$$? = 162 \div 3 = \mathbf{54}$$

Quiz - 33

S1. Ans(e)

Sol.

$$\text{I. } x^2 + 4x + 5x + 20 = 0$$

$$x(x + 4) + 5(x + 4) = 0$$

$$(x + 4)(x + 5) = 0$$

$$x = -4, -5$$

$$\text{II. } y^2 + 5y + 7y + 35 = 0$$

$$y(y + 5) + 7(y + 5) = 0$$

$$(y + 5)(y + 7) = 0$$

$$y = -5, -7$$

So, $x \geq y$

S2. Ans(c)

Sol.

$$\text{I. } x = +8$$

$$\text{II. } y = \pm 8$$

So, $x \geq y$

S3. Ans(b)

Sol.

$$\text{I. } x^2 - 12x - 9x + 108 = 0$$

$$x(x - 12) - 9(x - 12) = 0$$

$$(x - 12)(x - 9) = 0$$

$$x = 12, 9$$

$$\text{II. } y^2 - 13y - 12y + 156 = 0$$

$$y(y - 13) - 12(y - 13) = 0$$

$$(y - 13)(y - 12) = 0$$

$$y = 13, 12$$

So, $x \leq y$

S4. Ans(e)

Sol.

$$\text{I. } x^2 + 13x + 6x + 78 = 0$$

$$x(x + 13) + 6(x + 13) = 0$$

$$(x + 13)(x + 6) = 0$$

$$x = -13, -6$$

$$\text{II. } y^2 + 13y + 8y + 104 = 0$$

$$y(y + 13) + 8(y + 13) = 0$$

$$(y + 13)(y + 8) = 0$$

$$y = -13, -8$$

No relation can be established between x and y.

S5. Ans(e)

Sol.

$$\text{I. } x = \pm 15$$

$$\text{II. } y = 14$$

So, no relation can be established between x and y.

S6. Ans(e)

$$\text{Sol. I. } x^2 - 21x + 98 = 0$$

$$x^2 - 14x - 7x + 98 = 0$$

$$x(x - 14) - 7(x - 14) = 0$$

$$x = 7, 14$$

$$\text{II. } y^2 - 22y + 85 = 0$$

$$y^2 - 17y - 5y + 85 = 0$$

$$y(y - 17) - 5(y - 17) = 0$$

$$y = 5, 17$$

So, no relation

S7. Ans(e)

$$\text{Sol. I. } x^2 + 16x + 39 = 0$$

$$x^2 + 13x + 3x + 39 = 0$$

$$x(x + 13) + 3(x + 13) = 0$$

$$x = -3, -13$$

$$\text{II. } y^2 + 24y + 108 = 0$$

$$y^2 + 18y + 6y + 108 = 0$$

$$y(y + 18) + 6(y + 18) = 0$$

$$y = -6, -18$$

So, no relation.

S8. Ans(c)

$$\text{Sol. I. } x^2 + 5x - 14 = 0$$

$$x^2 + 7x - 2x - 14 = 0$$

$$x(x + 7) - 2(x + 7) = 0$$

$$x = 2, -7$$

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$$\text{II. } y^2 - 15y + 56 = 0$$

$$y^2 - 8y - 7y + 56 = 0$$

$$y(y-8) - 7(y-8) = 0$$

$$y = 7, 8$$

So, $y > x$

S9. Ans (e)

$$\text{Sol. I. } x^2 + 20x - 96 = 0$$

$$x^2 + 24x - 4x - 96 = 0$$

$$x(x+24) - 4(x+24) = 0$$

$$x = 4, -24$$

$$\text{II. } y^2 + 7y - 78 = 0$$

$$y^2 + 13y - 6y - 78 = 0$$

$$y(y+13) - 6(y+13) = 0$$

$$y = 6, -13$$

So, no relation

S10. Ans(d)

$$\text{Sol. I. } x^2 + 50x + 625 = 0$$

$$x^2 + 25x + 25x + 625 = 0$$

$$x(x+25) + 25(x+25) = 0$$

$$x = -25$$

$$\text{II. } y^2 + 45y + 500 = 0$$

$$y^2 + 20y + 25y + 500 = 0$$

$$y(y+20) + 25(y+20) = 0$$

$$y = -20, -25$$

So, $x \leq y$

S11. Ans(e)

$$\text{Sol. I. } x^2 + 10x + 21 = 0$$

$$x^2 + 7x + 3x + 21 = 0$$

$$x(x+7) + 3(x+7) = 0$$

$$x = -3, -7$$

$$\text{II. } y^2 + 11y + 28 = 0$$

$$y^2 + 4y + 7y + 28 = 0$$

$$y(y+4) + 7(y+4) = 0$$

$$y = -7, -4$$

So, no relation.

S12. Ans(e)

Sol. I. $2x^2 - 19x + 44 = 0$

$$2x^2 - 11x - 8x + 44 = 0$$

$$x(2x-11) - 4(2x-11) = 0$$

$$x = 4, \frac{11}{2}$$

II. $y^2 - 14y + 45 = 0$

$$y^2 - 9y - 5y + 45 = 0$$

$$y(y-9) - 5(y-9) = 0$$

$$y = 5, 9$$

So, no relation can be established

S13. Ans(a)

Sol. I. $x^2 - 22x + 85 = 0$

$$x^2 - 17x - 5x + 85 = 0$$

$$x(x-17) - 5(x-17) = 0$$

$$x = 5, 17$$

II. $5y^2 - 11y + 6 = 0$

$$5y^2 - 5y - 6y + 6 = 0$$

$$5y(y-1) - 6(y-1) = 0$$

$$y = 1, \frac{6}{5}$$

So, $x > y$

S14. Ans(b)

Sol. I. $x^2 = \sqrt{256}$

$$x^2 = 16$$

$$x = +4, -4$$

II. $(y+4)^2 = 0$

$$y = -4$$

So, $x \geq y$

S15. Ans(d)

Sol. I. $x^2 + 18x + 72 = 0$

$$x^2 + 12x + 6x + 72 = 0$$

$$x(x+12) + 6(x+12) = 0$$

$$x = -6, -12$$

II. $y^2 + 12y + 36 = 0$

$$y^2 + 6y + 6y + 36 = 0$$

$$y(y+6) + 6(y+6) = 0$$

$$y = -6$$

So, $x \leq y$

Quiz - 34

S1. Ans. (e)

Sol. I. $x^2 + 6x + 5 = 0$

$$x^2 + x + 5x + 5 = 0$$

$$x(x + 1) + 5(x + 1) = 0$$

$$(x + 1)(x + 5) = 0$$

$$x = -1, -5$$

II. $y^2 + 6y + 8 = 0$

$$y^2 + 4y + 2y + 8 = 0$$

$$y(y + 4) + 2(y + 4) = 0$$

$$(y + 2)(y + 4) = 0$$

$$y = -2, -4$$

So, no relation.

S2. Ans. (d)

Sol. I. $x^2 - 9x + 14 = 0$

$$x^2 - 7x - 2x + 14 = 0$$

$$x(x - 7) - 2(x - 7) = 0$$

$$(x - 2)(x - 7) = 0$$

$$x = 2, 7$$

II. $y^2 - 16y + 63 = 0$

$$y^2 - 9y - 7y + 63 = 0$$

$$y(y - 9) - 7(y - 9) = 0$$

$$(y - 7)(y - 9) = 0$$

$$y = 7, 9$$

So, $x \leq y$.

S3. Ans. (c)

Sol. I. $2x^2 - 17x + 35 = 0$

$$2x^2 - 7x - 10x + 35 = 0$$

$$x(2x - 7) - 5(2x - 7) = 0$$

$$(2x - 7)(x - 5) = 0$$

$$x = \frac{7}{2}, 5$$

II. $(y + 7)^3 = 2197$

$$(y + 7) = 13$$

$$y = 6$$

So, $x < y$.

S4. Ans. (d)

Sol. I. $(x + 16)^2 = 529$

$$x + 16 = \pm 23$$

$$x + 16 = 23 \quad x + 16 = -23$$

$$x = 7 \quad x = -39$$

II. $y^3 = 343$

$$y = 7$$

So, $x \leq y$.

S5. Ans. (a)

Sol. I. $x^2 - 10x + 21 = 0$

$$x^2 - 7x - 3x + 21 = 0$$

$$x(x - 7) - 3(x - 7) = 0$$

$$(x - 3)(x - 7) = 0$$

$$x = 3, 7$$

II. $6y^2 - 23y + 20 = 0$

$$6y^2 - 8y - 15y + 20 = 0$$

$$2y(3y - 4) - 5(3y - 4) = 0$$

$$(2y - 5)(3y - 4) = 0$$

$$y = \frac{5}{2}, \frac{4}{3}$$

So, $x > y$.

S6. Ans. (a)

Sol. Missing number = 132

Pattern of series -

$$8 + 4 = 12$$

$$12 + 8 = 20$$

$$20 + 16 = 36$$

$$36 + 32 = 68$$

$$? = 68 + 64 = \mathbf{132}$$

S7. Ans. (d)

Sol. Missing number = 2

Pattern of series -

$$0.25 \times 2 = 0.5$$

$$? = 0.5 \times 4 = \mathbf{2}$$

$$2 \times 6 = 12$$

$$12 \times 8 = 96$$

$$96 \times 10 = 960$$

S8. Ans. (b)

Sol. Missing number = 124

Pattern of series -

$$\mathbf{124} + (40 \times 1) = 164$$

$$164 + (40 \times 3) = 284$$

$$284 + (40 \times 5) = 484$$

$$484 + (40 \times 7) = 764$$

$$764 + (40 \times 9) = 1124$$

S9. Ans. (c)

Sol. Missing number = 734

Pattern of series -

$$1600 - 8^3 = 1088$$

$$1088 - 7^2 = 1039$$

$$1039 - 6^3 = 823$$

$$823 - 5^2 = 798$$

$$798 - 4^3 = \mathbf{734}$$

S10. Ans. (a)

Sol. Missing number = 124

Pattern of series -

$$12^2 + 3 = 147$$

$$11^2 + 3 = \mathbf{124}$$

$$10^2 + 3 = 103$$

$$9^2 + 3 = 84$$

$$8^2 + 3 = 67$$

$$7^2 + 3 = 52$$

Or

$$147 - 23 = \mathbf{124}$$

$$124 - 21 = 103$$

$$103 - 19 = 84$$

$$84 - 17 = 67$$

$$67 - 15 = 52$$

S11. Ans. (e)

Sol. $324 + 484 = ? + 512$

$$? = 808 - 512$$

$$? = 296$$

S12. Ans. (e)

$$\text{Sol. } \frac{?}{100} \times 800 = \frac{30}{100} \times 100 + \frac{20}{100} \times 650$$

$$? \times 8 = 30 + 130$$

$$? = \frac{160}{8}$$

$$? = 20$$

S13. Ans. (b)

Sol. $? = 1072 - 628$

$$? = 444$$

S14. Ans. (a)

Sol. $? - 256 = 130$

$$? = 386$$

S15. Ans. (b)

$$\text{Sol. } ? = \frac{37}{8} + \frac{3}{2} - \frac{8}{3}$$

$$? = \frac{111+36-64}{24}$$

$$? = \frac{83}{24}$$

$$? = 3\frac{11}{24}$$

TEST SERIES

Bilingual



SBI CLERK 2021

PRIME

100+ TOTAL TESTS

Quiz - 35

S1. Ans.(d)

$$\text{Sol. } \frac{40}{100}y - \frac{20}{100}x = 270$$

$$\Rightarrow 2y - x = 1350 \dots(i)$$

$$\text{and } \frac{40}{100}x - \frac{20}{100}y = 0$$

$$2x - y = 0 \dots(ii)$$

On solving (i) & (ii)

$$x = 450$$

$$y = 900$$

$$\text{Required sum} = 1350$$

S2. Ans.(b)

Sol. Let 200 promised to P & 300 to Q

After they went back from promise

P got

$$= 200 - 200 \times \frac{25}{100} + 300 \times \frac{30}{100}$$

$$= 240 \text{ votes}$$

$$\text{Q got} = 300 - 300 \times \frac{30}{100} + 50$$

$$= 260 \text{ votes}$$

Q wins by 20 unit which is equal to 400 votes

$$\therefore 1 \text{ unit} = \frac{400}{20} = 20$$

$$\text{And total votes} = 20 \times 500$$

$$= 10000 \text{ votes}$$

S3. Ans.(c)

Sol.

Let present age of Veer = $7x$

And present age of Rohit = $5x$

Present age of Arun = $5x + 10$

ATQ,

$$\frac{7x-10}{5x} = \frac{16}{15}$$

$$\Rightarrow 105x - 150 = 80x$$

$$x = 6$$

Hence present age of Rohit = $5 \times 6 = 30$ years

S4. Ans.(e)

Sol.

Let age of Abhi and Rahul seven years ago be $5x$ and $3x$ respectively.

ATQ,

$$\frac{5x+15}{3x+15} = \frac{3}{2}$$

$$x = 15$$

Present age of Sati

$$= \frac{15 \times 8 + 14}{2} = 67 \text{ years.}$$

S5. Ans.(b)

Sol. Let present age of Mohan = x

So, ATQ

$$\frac{5}{6} \times x = x - 5$$

$$x = 30$$

$$\text{His wife's age} = 30 - 3 = 27$$

S6. Ans.(c)

Sol.

Let Rahul's age – x years.

Then, Aman's age – 2x years

Arun's age – x - 5

ATQ,

$$2x + x + x - 5 = 79$$

$$x = 2 \text{ years}$$

$$\text{Required difference} = 2x - (x - 5) = 26 \text{ years}$$

S7. Ans.(e)

Sol. \because a, b, c and d are four consecutive numbers and $a + c = 120$

$$\therefore a + a + 4 = 120$$

$$\Rightarrow 2a = 116 \Rightarrow a = 58$$

$$\therefore b = 60 \text{ and } d = 64$$

$$\therefore b \times d = 60 \times 64 = 3840$$

S8. Ans.(d)

Sol. Let the numbers be a, b, and c respectively.

$$\therefore \frac{a+c}{2} - \frac{b+c}{2} = 24$$

$$\Rightarrow (a+c) - (b+c) = 24 \times 2 = 48$$

$$\Rightarrow a - b = 48$$

S9 Ans.(e)

Sol.

Let two-digit number = $10x + y$

According to question

$$x + y = 12 \text{ ..(i)}$$

$$\text{and } |x - y| = 6 \Leftrightarrow x - y = \pm 6 \text{ ..(ii)}$$

By solving equation (i) and (ii)

$$x = 9 \text{ or } x = 3$$

$$y = 3 \text{ or } y = 9$$

\therefore Required two-digit number

$$= 10x + y = 10 \times 9 + 3 \text{ Or } 10x + y = 10 \times 3 + 9$$

$$= 90 + 3 = 93 \text{ or } 30 + 9 = 39$$

93 & 39 both can be the answers

So, Either (a) or (c)

S10. Ans.(d)

Sol. Sum of present age of couple = $2 \times 29 = 58$

Age of family after 8 years

$$= 58 + 8 \times 2 + (8 - 2) + (8 - 4)$$

$$= 58 + 16 + 6 + 4$$

$$= 84$$

$$\text{Required average} = \frac{84}{4} = 21$$

S11. Ans.(d)

$$\text{Sol. Second no.} = \frac{100 \times 12}{100} = 12$$

$$\therefore \text{first no.} = 12^3 \times \frac{3}{2} = 1728 \times \frac{3}{2}$$

$$= 2592$$

$$\therefore \text{Required sum} = 12 + 2592 = 2604$$

S12. Ans.(e)

Sol. Let present age of Bhagat & Abhi be $9x$ and $8x$ respectively

After 10 years.

$$\frac{9x+10}{8x+10} = \frac{10}{9}$$

$$81x + 90 = 80x + 100$$

$$x = 10$$

\therefore required difference = 10 years.

S13. Ans.(d)

Sol.

$$2100 \left(\begin{array}{ccc} 25 & : & 16 + 9 \\ \downarrow & \left(+25\% = \frac{1}{4} \right) & \downarrow \\ 32 & = & 20 \quad 12 \end{array} \right) + \frac{1}{3}$$

7 unit \rightarrow 2100

$$I = E + S$$

$$\therefore 9 \text{ unit} \rightarrow 300 \times 9 = \text{Rs. } 2700.$$

S14. Ans.(e)

Sol. Let the four consecutive even no. be $(x - 3)$, $(x - 1)$, $(x + 1)$ & $(x + 3)$

And three consecutive odd no. be $(y - 2)$, y , $(y + 2)$

ATQ,

$$4x - 3y = 49 \dots(i)$$

$$x - 3 + y - 2 = 23$$

$$x + y = 23 + 5$$

$$x + y = 28 \dots(ii)$$

Multiplying (ii) by 3 and on solving

$$\therefore x = 19$$

$$y = 9$$

$$\therefore \text{largest even no.} = 19 + 3 = 22$$

S15. Ans.(c)

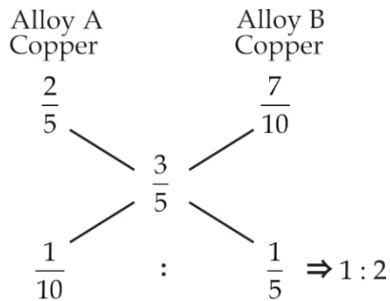
Sol. Required number of students

$$= 1800 \times \frac{22}{25} \times \frac{4}{9}$$
$$= 704$$

Quiz - 36

S1. Ans.(a)

Sol.



S2. Ans.(b)

Sol. Let total quantity of mixture initially = $100x$

So quantity of milk initially = $75x$

So quantity of water initially = $25x$

8 liter of mixture is taken out

So, $\frac{8 \times 75}{100} = 6$ liter of milk is taken out

$8 - 6 = 2$ liter of water is taken out

Now,

ATQ,

$$\frac{75x - 6 + 7}{25x - 2} = \frac{7}{2}$$

$$x = \frac{16}{25}$$

So initial quantity of mixture = $\frac{16}{25} \times 100 = 64$ L

S3. Ans.(a)

Sol. Let larger part is = Rs y .

Then smaller part = Rs. $(1800 - y)$

ATQ,

$$\frac{y \times x \times 2}{100} + (1800 - y) \times \frac{4 \times 2}{100} = 164$$

$$2xy + 14400 - 8y = 16400 \dots (i)$$

and

$$\frac{y \times 4 \times 2}{100} + (1800 - y) \times \frac{x \times 2}{100} = 160$$

$$8y + 3600x - 2xy = 16000 \dots (ii)$$

Adding (i) and (ii)

$$3600x = 16400 + 16000 - 14400$$

$$x = 5$$

$$x\% = 5\%$$

S4. Ans(d)

Sol. sum left at the end of first year = $\left(400 + 400 \times \frac{10}{100}\right) - 200 = Rs. 240$

sum left at the end of 2nd year = $\left(240 + 240 \times \frac{10}{100}\right) - 64 = Rs. 200$

sum paid at the end of 3rd year to clear his debt. = $\left(200 + 200 \times \frac{10}{100}\right) = Rs. 220$

S5. Ans(c)

Sol. quantity of water and acid in initial mixture = $50 \times \frac{40}{100}$, $50 \times \frac{60}{100} = 20 \text{ lit and } 30 \text{ lit respectively.}$

Quantity of acid left after 30 lit of mixture taken out = $30 - 30 \times \frac{3}{5} = 12 \text{ lit.}$

Quantity of water left after 30 lit of mixture taken out = $20 - 30 \times \frac{2}{5} = 8 \text{ lit.}$

Required ratio = $\left(8 + 50 \times \frac{60}{100}\right) : \left(12 + 50 \times \frac{40}{100}\right) = 19 : 16$

S6. Ans(b)

Sol. let total time of investment = 60t months

Ratio of profit of A, B and C

$5 \times 60t \times \frac{1}{12} : 3 \times 60t \times \frac{1}{5} : 7 \times 60t \times \frac{1}{15}$

$\Rightarrow 25 : 36 : 28$

ATQ

$(36 - 28) \text{ units} = Rs. 800$

Then, 25 units = Rs. 2500

S7. Ans.(a)

Sol. Rate of interest (x) = $\frac{910 - 845}{845} \times 100 = \frac{65}{845} \times 100 = 7 \frac{9}{13} \%$

Total CI = 910 + 845 = Rs. 1755

Let 'p' amount was invested

C.I. = $P \left[\left(1 + \frac{R}{100}\right)^T - 1 \right]$

$1755 = P \left[\left(1 + \frac{1}{13}\right)^2 - 1 \right]$

$1755 = P \times \frac{27}{169}$

$P = \frac{1755 \times 169}{27} = Rs. 10985$

S8. Ans (b)

Sol. Let the sum and rate of interest be Rs P and R% respectively.

Second year C.I. = 2 years S.I. + interest of one year on first year S.I.

2-year S.I. = Rs.500

1-year S.I. = Rs.250

So, interest on first year S.I. = 550 - 500 = Rs. 50

Rate of interest = $\frac{50}{250} \times 100 = 20\%$

S9. Ans (e)

Sol. Let quantity of two type of rice be 5x and 3x respectively.

Total cost = $5x \times 90 + 3x \times 40 = Rs 570x$

So, per kg price of sugar = $\frac{570x}{5x+3x} = \frac{570x}{8x} = Rs 71.25 \text{ per kg}$

S10. Ans.(a)

Sol. Atq

$$66\frac{2}{3}\% \rightarrow \frac{2}{3}$$

$$\frac{(x-30)\frac{13}{20}+2.5}{(x-30)\frac{7}{20}} = \frac{2}{1}$$

$$\Rightarrow \frac{13}{20}x - 19.5 + 2.5 = \frac{14}{20}x - 21$$

$$\frac{x}{20} = 21 - 17$$

$$x = 20 \times 4$$

$$x = 80 \text{ lit}$$

S11. Ans (e)

Sol. Let Sunny invested for T months.

$$\text{Ratio of profit share of Dinesh and Sunny} = \frac{12000 \times 12}{9000 \times T} = \frac{16}{T}$$

Let profit share of Dinesh and Sunny be Rs 16x and Rs Tx respectively.

ATQ

$$16x + Tx = 8000$$

$$\text{And } Tx = 1600$$

$$\text{So, } 16x = 6400$$

$$x = 400$$

$$T = 4$$

Sunny invested for 4 months.

∴ after 8 months sunny joined the business.

S12. Ans (a)

Sol. Let the sum be Rs P and rate of interest is R% per annum.

Simple interest for first year and second year is Rs 140 and Rs 140 respectively.

For first year compound interest and simple interest are same.

$$\text{So, Compound interest for second year} = 308 - 140 = \text{Rs } 168$$

$$\text{Rate of interest} = \frac{168-140}{140} \times 100 = 20\%$$

$$\text{So, sum} = \frac{280 \times 100}{20 \times 2} = \text{Rs } 700$$

S13. Ans (d)

Sol. Let rate of interest be R% per annum and sum be Rs P.

ATQ

$$868 - P = \frac{P \times R \times 4}{100} \dots \dots (i)$$

Now,

$$910 - P = \frac{P \times \frac{125}{100} \times R \times 4}{100} \dots \dots (ii)$$

By dividing (i) from (ii)

$$\frac{868 - P}{910 - P} = \frac{P \times R \times 4}{P \times \frac{125}{100} \times R \times 4}$$

$$\frac{868 - P}{910 - P} = \frac{4}{5}$$

$$4340 - 5P = 3640 - 4P$$

$$P = \text{Rs } 700$$

S14. Ans (e)

Sol. Fraction of petrol taken out from the initial quantity

$$= \frac{20}{240} = \frac{1}{12}$$

So, remaining quantity of petrol in the final mixture

$$= 240 \times \frac{11}{12} \times \frac{11}{12} = 201.66 \text{ lit}$$

S15. Ans.(a)

Sol. Profit sharing ratio of A, B & C

$$= (2000 \times 12) : (2500 \times 12) : (1500 \times 4)$$

$$= 24000 : 30000 : 6000$$

$$= 4 : 5 : 1$$

Let total profit be Rs. P

ATQ,

$$\frac{1}{(4 + 5 + 1)} \times P = 350$$

$$P = \text{Rs. } 3500$$



BILINGUAL

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Starts April 7, 2021

11 AM to 10 PM

The advertisement features a blue and purple background with a circular photo of four people (three men and one woman) in the top left. The text is white and yellow, providing details about the SBI PO Foundation Batch 2021, including the start date and time.