

BOOKS



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Solutions

S1. Ans.(c)

Sol. $A + 2B + C = 59 \dots(i)$

$3A + B + C = 68 \dots(ii)$

$A + 3B + 3C = 108 \dots(iii)$

Solving these equations together

$A = 12$ years, $B = 15$ years, $C = 17$ years

S2. Ans.(b)

Sol. Ruby's annual income

$$= 12 \times 3 \times \frac{115}{100} \times 32,000$$

$$= \text{Rs. } 13,24,800$$

S3. Ans.(c)

Sol. Gross collection per day will increased by

$$= \frac{1,68,000}{7}$$

$$= \text{Rs. } 24,000$$

S4. Ans.(b)

Sol. Let C.P. to man per article = x

\therefore S.P. of 800 articles = $864x$

and S.P. of 64 articles

$$= \frac{864x}{800} \times 64$$

$$= 69.12x$$

$$\therefore \% \text{ profit} = \frac{933.12 - 864}{864} \times 100 = 8\%$$

S5. Ans.(c)

Sol. Let investment made by Rashmi in scheme A = Rs. x

\therefore Investment made by her in scheme B = $(4200 - x)$

ATQ,

$$\frac{x \times 22 \times 4}{100} - (4200 - x) \left[\left(1 + \frac{10}{100} \right)^2 - 1 \right] = 1516$$

$$\Rightarrow \frac{88x}{100} - \frac{(4200 - x) \times 21}{100} = 1516$$

$$\Rightarrow 109x - 88,200 = 1,51,600$$

$$\Rightarrow x = 2200$$



S6. Ans.(d)

Sol.

$$\frac{24}{100} \times 480 + \frac{30}{100} \times 270 + \frac{48}{100} \times 10 = x$$

$$x = 24 \times 4.8 + 3 \times 27 + 4.8$$

$$x = 115.2 + 81 + 4.8$$

$$x = 201$$

S7. Ans.(b)

Sol.

$$x = 19 \times \frac{4}{38} \times 26 + \frac{1024 \times 5}{4}$$

$$x = 4 \times 13 + 1280$$

$$x = 1332$$

S8. Ans.(b)

Sol.

$$\frac{x}{100} \times \frac{360}{72} + \frac{2}{7} \times 315 = \frac{28}{100} \times 625$$

$$\frac{x}{20} + 2 \times 45 = \frac{7}{25} \times 625$$

$$\frac{x}{20} + 90 = 175$$

$$\frac{x}{20} = 85$$

$$x = 1700$$

S9. Ans.(a)

Sol.

$$\frac{841}{116} \times 4 + 256\sqrt{x} = 541$$

$$\frac{841}{29} + 256\sqrt{x} = 541$$

$$256\sqrt{x} = 541 - 29$$

$$256\sqrt{x} = 512$$

$$\sqrt{x} = 2$$

$$x = 4$$

S10. Ans.(e)

Sol.

$$68 \times 24 - \frac{2}{100} \times 1600 = x^2$$

$$x^2 = 1632 - 32$$

$$x = 40$$



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S11. Ans.(b)

Sol. Required % = $\frac{\left(\frac{10+35}{2}\right) - \left(\frac{10+20}{2}\right)}{\left(\frac{10+20}{2}\right)} \times 100 = 50\%$

S12. Ans.(d)

Sol. Total quantity of water available = $7000 \times \frac{8}{7}$ liter = 8000 liter

Required ratio = $\frac{1000}{(35-20) \times \frac{7000}{100}} = \frac{1000}{1050} = \frac{20}{21}$

S13. Ans.(a)

Sol. Required ratio = $\frac{(35+20)}{(10+10)} = \frac{55}{20} = \frac{11}{4}$

S14. Ans.(e)

Sol. $3\frac{1}{7}\%$ of Quantity of water consumed by S = $\frac{22}{7 \times 100} \times \frac{35}{100} \times 7000 = 77$ liter

Required percentage = $\frac{77}{\frac{10 \times 7000}{100}} \times 100 = 11\%$

S15. Ans.(a)

Sol. Required quantity = $\frac{(35-20) \times 7000}{100} - \frac{(20-10)}{100} \times 7000$
 $= \frac{5}{100} \times 7000 = 350$ liter

S16 Ans.(d)

Sol.

I. $15x^2 + 5x + 6x + 2 = 0$

$5x(3x + 1) + 2(3x + 1) = 0$

$(5x + 2)(3x + 1) = 0$

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

II. $24y^2 + 8y + 3y + 1 = 0$

$8y(3y + 1) + 1(3y + 1) = 0$

$(8y + 1)(3y + 1) = 0$

$y = -\frac{1}{3}, -\frac{1}{8}$

$\Rightarrow x \leq y$

S17. Ans.(a)

Sol.

I. $x^2 - 13x - 17x + 221 = 0$

$x(x - 13) - 17(x - 13) = 0$

$(x - 17)(x - 13) = 0$

$x = 13, 17$

II. $y^2 - 12y - 5y + 60 = 0$

$y(y - 12) - 5(y - 12) = 0$

$(y - 5)(y - 12) = 0$

$y = 5, 12$

$\Rightarrow x > y$







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S18. Ans.(c)

Sol.

I. $x^2 + 6x + 8 = 0$

$x^2 + 2x + 4x + 8 = 0$

$x(x + 2) + 4(x + 2) = 0$

$(x + 4)(x + 2) = 0$

$x = -2, -4$

II. $8y^2 + 22y + 15 = 0$

$8y^2 + 10y + 12y + 15 = 0$

$2y(4y + 5) + 3(4y + 5) = 0$

$(2y + 3)(4y + 5) = 0$

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

$\Rightarrow x < y$

S19. Ans.(b)

Sol.

I. $x^2 - 20x + 96 = 0$

$x^2 - 8x - 12x + 96 = 0$

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

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

$x = 12, 8$

II. $y^2 - 15y + 56 = 0$

$y^2 - 7y - 8y + 56 = 0$

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

$y = 7, 8$

$\Rightarrow x \geq y$



S20. Ans.(e)

Sol.

I. $x^2 + 2x - 35 = 0$

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

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

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

$x = 5, -7$


II. $y^2 + 3y - 10 = 0$

$y^2 + 5y - 2y - 10 = 0$

$(y + 5)(y - 2) = 0$

$y = -5, 2$

\Rightarrow no relation can be established between x and y

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S21. Ans.(d)

Sol. Let daughter's present age be x years.

Then, Shalini's present age = 5x years

Ratio of present age of

Daughter: Shalini : Father

$$2x : 10x : 25x$$

ATQ,

$$2x + 10x + 25x = 43 \times 3 - 18$$

$$\Rightarrow x = 3$$

$$\text{Required ratio} = \frac{2x}{25x-10x} = \frac{2 \times 3}{15 \times 3} = 2 : 15$$

S22. Ans.(c)

Sol. Required probability = $\frac{1}{7} \times \frac{4}{5} + \frac{6}{7} \times \frac{1}{5}$

$$= \frac{4+6}{35} = \frac{10}{35} = \frac{2}{7}$$

S23. Ans.(c)

Sol. let the radius of the outer circle be R m.

And the radius of the inner circle be r m.

Then, according to the question

$$2\pi R - 2\pi r = 88$$

$$\text{or, } R - r = \frac{88 \times 7}{2 \times 22} = 14$$

$$\text{Or, } R = 14 + r = 14 + 3.5 = 17.5 \text{ m}$$

$$\text{Now, area of the road} = \pi (17.5^2 - 3.5^2)$$

$$= \frac{22}{7} \times 21 \times 14 = 924 \text{ m}^2$$



S24. Ans.(a)

Sol. Required number of 5 digit number = $\overset{-}{\underset{\uparrow}{6}} \times \overset{-}{\underset{\uparrow}{6}} \times \overset{-}{\underset{\uparrow}{5}} \times \overset{-}{\underset{\uparrow}{4}} \times \overset{-}{\underset{\uparrow}{3}}$

$$= 2160$$

S25. Ans.(e)

Sol. Let initially chiru has Rs. x with him.

ATQ,

$$\frac{x}{8} + 9 = \frac{x}{5} \text{ (he saves Rs. 9 per dozen)}$$

$$\Rightarrow \frac{x}{5} - \frac{x}{8} = 9 \Rightarrow \frac{3x}{40} = 9$$

$$\Rightarrow x = \text{Rs. } 120$$

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