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S26. Ans.(c)

Sol. C.P. of 10 note books $\Rightarrow 140 \times 10 = 1400$ Rs.

Profit on selling one pen $\Rightarrow \frac{50 \times 200}{100} = \text{Rs } 100$

Number of pen required $\Rightarrow \frac{1400}{100} = 14$

S27. Ans.(d)

Sol. Let speed of slower train = $2x$

\Rightarrow speed of faster train = $5x$

ATQ,

$$\frac{150 + 200}{2x + 5x} = 15$$

$$x = \frac{10}{3}$$

Time required

$$= \frac{350}{\frac{50}{3} - \frac{20}{3}} = 35 \text{ second}$$

S28. Ans.(b)

Sol. Ratio of profit share of B and E is

$35\% \times 80,000 \times 9 : 15\% \text{ of } 80,000 \times 12 = 7 : 4$

Required difference = $\frac{(7-4)}{11} \times 15400$

$$= \frac{3}{11} \times 15400 = \text{Rs } 4200$$

S29. Ans.(d)

Sol. Ratio of profit share of A, C and D is

A	:	C	:	D
$25\% \times 80,000 \times 6$:	$15\% \times 80,000 \times x$:	$10\% \times 80,000 \times 8$
150	:	$15x$:	80
30	:	$3x$:	16

ATQ,


$$\frac{30}{30 + 16 + 3x} = \frac{6750}{13050}$$

$$\Rightarrow \frac{30}{46 + 3x} = \frac{15}{29}$$

$$\Rightarrow 46 + 3x = 58$$

$x = 4$ months





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Publications

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S30. Ans.(a)

Sol. Amount invested by F = $\frac{15}{100} \times 80,000 + 4000$
 = 12000 + 4000 = Rs 16,000

Amount invested by A = $\frac{25}{100} \times 80,000 = \text{Rs } 20,000$

Ratio of profit share of F, C and A

$$\begin{array}{ccc} \text{F} & : & \text{C} & : & \text{A} \\ 16000 \times 6 & : & 12000 \times 8 & : & 20,000 \times 12 \\ 2 & : & 2 & : & 5 \end{array}$$

ATQ,

$5 + 2 \rightarrow 8750$

Then total annual profit = $9 \rightarrow \frac{8750}{7} \times 9 = \text{Rs } 11,250$

S31. Ans.(c)

Sol. I. $(x - 2)^2 = 9$

$\Rightarrow (x - 2) = \pm 3$

$\Rightarrow x = 5, -1$

II. $(2y + 8)^2 = 16$

$(2y + 8) = \pm 4$

$\Rightarrow y = -2, -6$

$x > y$

**S32. Ans.(e)**

Sol. I. $x^2 - 16x + 64 = 0$

$x^2 - 8x - 8x + 64 = 0$

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

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

$x = 8, 8$

II. $y^2 - 16y + 63 = 0$

$y^2 - 7y - 9y + 63 = 0$

$y(y - 7) - 9(y - 7) = 0$

$(y - 9)(y - 7) = 0$

$y = 9, 7$

No relation can be established between x & y

S33. Ans.(d)

Sol. I. $\frac{25}{x^2} - \frac{15}{x} + 2 = 0$

$\Rightarrow 2x^2 - 15x + 25 = 0$

$\Rightarrow 2x^2 - 10x - 5x + 25 = 0$

$2x(x - 5) - 5(x - 5) = 0$

$(2x - 5)(x - 5) = 0$

$x = \frac{5}{2}, 5$

$$\text{II. } \frac{40}{y^2} + 1 = \frac{13}{y}$$

$$\Rightarrow y^2 - 13y + 40 = 0$$

$$\Rightarrow y^2 - 8y - 5y + 40 = 0$$

$$\Rightarrow y(y - 8) - 5(y - 8) = 0$$

$$(y - 5)(y - 8) = 0$$

$$y = 5, 8$$

$$y \geq x$$

S34. Ans.(d)

$$\text{Sol. I. } \frac{48}{x^2} - \frac{14}{x} + 1 = 0$$

$$\Rightarrow x^2 - 14x + 48 = 0$$

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

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

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

$$x = 8, 6$$

$$\text{II. } \frac{45}{y^2} + \frac{1}{y} = 2$$

$$\Rightarrow 2y^2 - y - 45 = 0$$

$$\Rightarrow 2y^2 - 10y + 9y - 45 = 0$$

$$\Rightarrow 2y(y - 5) + 9(y - 5) = 0$$

$$\Rightarrow (2y + 9)(y - 5) = 0$$

$$y = 5, -\frac{9}{2}$$

$$x > y$$



S35. Ans.(e)

$$\text{Sol. I. } x^2 + 3x - 4 = 0$$

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

$$x(x + 4) - 1(x + 4) = 0$$

$$(x - 1)(x + 4) = 0$$

$$x = 1, -4$$

$$\text{II. } y^2 + 10y + 24 = 0$$

$$y^2 + 4y + 6y + 24 = 0$$

$$y(y + 4) + 6(y + 4) = 0$$

$$(y + 6)(y + 4) = 0$$

$$y = -4, -6$$

$$x \geq y$$

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S36. Ans.(c)**Sol.** From I, II & IIILet speed of Amit and Abhi be $4x$ and $5x$ km/hr respectively.

$$5x - 4x = 20$$

$$\therefore x = 20 \text{ km/hr}$$

Let distance be d km

$$\frac{d}{80} - \frac{d}{100} = 1$$

$$\therefore d = \frac{80 \times 100}{20} = 400 \text{ km}$$

S37. Ans.(b)**Sol.** From I and IILet length and breadth be $3x$ m and $2x$ m respectively

$$2\pi r = 440 \quad [r \rightarrow \text{radius of circle}]$$

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

$$\therefore \text{breadth} = 10 \text{ m}$$

$$\& \text{ length} = 15 \text{ m}$$

$$\therefore \text{Area} = 10 \times 15 = 150 \text{ m}^2$$

Statement I and III are same.

S38. Ans.(a)**Sol.** From I

$$\text{Passed} = 400$$

From III

Let number of appeared & Failed students be $5x$ and $3x$ respectively

$$2x = 400 \Rightarrow x = 200$$

$$\therefore \text{failed} = \text{appeared} - \text{passed}$$

$$= 1000 - 400 = 600$$

S39. Ans.(a)**Sol. From I**

$$\frac{PR \times 2}{100} = 44000$$

$$PR = 2200000$$

From II

$$P + \frac{PRT}{100} = 154000$$

From III

$$\text{Difference} = \frac{PR^2}{100^2}$$

$$\frac{PR^2}{100^2} = 120$$

From I and III R can be found.



S40. Ans.(e)**Sol.** Let the smaller no. is x & bigger no. is y .

From I

$$Y = x + 6$$

From II,

$$\frac{40}{100} \times x = \frac{30}{100} \times y$$

From III,

$$\frac{\frac{y}{2}}{\frac{x}{3}} = \frac{2}{1}$$

$$\Rightarrow 3y = 4x$$

 \therefore from I and II or I and III**S41. Ans.(b)****Sol.** Let amount of milk removed = $2x$ litSo, amount of water added = x lit

Now

$$\rightarrow \frac{165 - 2x}{x} = \frac{5}{3}$$

$$x = 45 \text{ lit}$$

S42. Ans.(c)**Sol.** At least one black can be chosen in three ways:

1. first one is black, second is non-black
2. first one is non-black, second is black
3. both are black.

Probability of selecting a box is $\frac{1}{2}$

Now, probability of choosing at least one black ball from first box

$$= \frac{1}{2} \times \left(\frac{2}{4} \times \frac{2}{3} + \frac{2}{4} \times \frac{2}{3} + \frac{2}{4} \times \frac{1}{3} \right) = \frac{5}{12}$$

Probability of choosing at least one black ball from 2nd box


$$= \frac{1}{2} \times \left(\frac{4}{16} \times \frac{12}{15} + \frac{12}{16} \times \frac{4}{15} + \frac{4}{16} \times \frac{3}{15} \right) = \frac{27}{120}$$

Final probability

$$= \frac{5}{12} + \frac{27}{120} = \frac{50 + 27}{120} = \frac{77}{120}$$

S43. Ans.(a)**Sol.** Let speed of train B be x m/sAnd length of train B be y mThen length of train A is $2y$ m

$$\text{Speed of train A} = 84 \times \frac{5}{18} = \frac{210}{9} \text{ m/s} = \frac{70}{3} \text{ m/s}$$


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A.T.Q,

$$\frac{2y+y}{10} = \frac{70}{3} - x \dots\dots\dots(i)$$

$$\text{and } \frac{2y+y}{22.5} = \frac{70}{3} - 2x$$

solving (i) and (ii), $y = 50$ m

S44. Ans.(c)

Sol. Let, inner radius of cylinder be ' x ' cm.

$$\frac{4}{3}\pi(6)^3 = \pi \times 32 (5^2 - x^2)$$

$$\text{or, } \frac{4 \times 6 \times 6 \times 6}{3 \times 32} = 25 - x^2$$

$$\text{or, } x^2 = 25 - 9$$

$$\text{or, } x = 4 \text{ cm}$$

Hence, thickness = $5 - 4 = 1$ cm.

S45. Ans.(b)

Sol. X's investment

$$= (700 \times 3) + \left(700 \times \frac{5}{7} \times 3\right) + \left(500 + 200 \times \frac{3}{5}\right) \times 6$$

$$= \text{Rs. } 7320$$

$$Y's \text{ investment} = 600 \times 12 = \text{Rs. } 7200.$$

\therefore X's share from profit

$$= \frac{7320}{(7320+7200)} \times 726 = \text{Rs. } 366.$$



S46. Ans.(a)

$$\text{Sol. Total man working on odd days in March} = \frac{1000 \times 30}{100} = 300$$

$$\text{Total odd days in March} = 16$$

$$\text{Total man hour} = 300 \times 16 \times 8$$

Similarly,

$$\text{Total man hour of April on even days} = 15 \times 8 \times 1200$$

$$\text{Required \%} = \frac{300 \times 16 \times 8}{15 \times 8 \times 1200} \times 100 = 26\frac{2}{3} \%$$

S47. Ans.(d)

Sol. Total man hour of April

$$= \frac{1500}{100} \times [20 \times 15 + 80 \times 15] \times 8 = 1,80,000$$

Total man hour of August

$$= 750 \times \frac{40}{100} \times 15 \times 8 + 16 \times 750 \times \frac{60}{100} \times 8$$

$$= 36000 + 57600 = 93,600$$

$$\text{Required difference} = 1,80,000 - 93,600 = 86,400$$

S48. Ans.(b)

Sol. Required ratio

$$\begin{aligned} &= \frac{10 \times 15 \times 70 \times 8}{15 \times 75 \times 4 \times 8} \\ &= 7 : 3 \end{aligned}$$

S49. Ans.(c)

Sol. Man-hour on odd days on April = $15 \times 300 \times 8 = 36000$

Man-hour on odd days on August = $16 \times 75 \times 6 \times 8 = 57600$

$$\text{Required \%} = \frac{57600 - 36000}{57600} \times 100 = 37.5\%$$

S50. Ans.(a)

Sol. Man-hour on even days →

March = $15 \times 8 \times 700 = 84,000$

April = $15 \times 8 \times 1200 = 1,44,000$

August = $15 \times 8 \times 300 = 36,000$

Required Average = 88,000



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