

S31. Ans.(d)

$$\text{Sol. } \frac{x}{100} \times 800 + 348 = 980$$

$$8x = 980 - 348$$

$$x = 79$$

S32. Ans.(e)

$$\text{Sol. } 81 - 49 + 67 = x + 64$$

$$x = 99 - 64 = 35$$

S33. Ans.(b)

$$\text{Sol. } \frac{343}{7} - \frac{25}{100} \times 100 = \frac{x}{8} \times 24$$

$$49 - 25 = 3x$$

$$x = 8$$

S34. Ans.(a)

$$\text{Sol. } x = 25212 - 9552$$

$$= 15660$$

S35. Ans.(c)

$$\text{Sol. } 44 \times \frac{50}{100} \times 70 - \frac{289}{17} \times 2 = x$$

$$1540 - 34 = x$$

$$x = 1506$$

S36. Ans.(b)

$$\text{Sol. } x^2 = 802 - 402$$

$$= 400$$

$$x = \pm 20$$

S37. Ans.(e)

$$\text{Sol. } 14 = 7x$$

$$x = 2$$

S38. Ans.(d)

$$\text{Sol. } \frac{80}{100} \times x - \frac{50}{100} \times 400 = 600$$

$$x = \frac{800}{80} \times 100$$

$$= 1000$$



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TEST PACK

S39. Ans.(a)

Sol. $x^4 + 16 + 8x^2 = 8x^2 + 97$

$x^4 = 81$

$x = \pm 3$

S40. Ans.(b)

Sol. $\frac{9}{7} - \frac{25}{7} + \frac{37}{2} = \frac{x}{7} + \frac{31}{2}$

$-\frac{16}{7} + 3 = \frac{x}{7}$

$x = 21 - 16 = 5$

S41. Ans.(b)

Sol. Required difference = $(330 + 270) - (290 + 280) = 600 - 570 = 30$

S42. Ans.(e)

Sol. Required ratio = $\frac{280 + 270}{330} = \frac{550}{330} = 5:3$

S43. Ans.(d)

Sol. Required increment in cost price of B = $0.25 \times 280 = \text{Rs } 70$

S44. Ans.(a)

Sol. Required % = $\frac{(290 + 330) - 270}{270} \times 100 = 130\%$

S45. Ans.(e)

Sol. Required difference = $\frac{(330+280)}{2} - \frac{(290+270)}{2} = 305 - 280 = \text{Rs } 25$

S46. Ans.(b)

Sol. Let the side of the square be x cm

Then the length of the rectangle = $(x+8)$ cm

Breadth of the rectangle = $(x-6)$ cm

ATQ

$x^2 = (x + 8) \times (x - 6)$

$x = 24$ cm

length of the rectangle = 32 cm

and breadth of the rectangle = 18 cm

perimeter of the rectangle = $2(l + b) = 100$ cm

S47. Ans.(b)

Sol. Let the number of students in the class be x

ATQ

$$x \times \frac{x}{6} = \frac{x}{3} \times 27$$

$$x^2 = 54x$$

$$x = 0 \text{ or } 54$$

Required number of chocolates = $54 \times 9 = 486$

S48. Ans.(a)

Sol. Sum of the length of both the trains = $(93 - 57) \times \frac{5}{18} \times 18 = 180 \text{ m}$

$$\text{Required time} = \frac{180}{(93+57) \times \frac{5}{18}} = 4 \frac{8}{25} \text{ sec}$$

S49. Ans.(e)

Sol. Profit share ratio

A B C

$$10800 \times 12 : 18900 \times 12 : 16200 \times 6$$

$$4 : 7 : 3$$

$$\text{Required total profit} = 14 \times \frac{21000}{3} = \text{Rs } 98000$$

S50. Ans.(c)

Sol. Let age of A, 5 years ago be x years

Then age of his mother 5 years ago = $3.5x$ years

ATQ

$$\frac{x + 15}{3.5x + 15} = \frac{1}{2}$$

$$x = 10$$

Required sum = $4.5x + 10 = 55 \text{ years}$

S51. Ans.(c)

Sol. I. $4x^2 + 6x + 2x + 3 = 0$

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

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

II. $2y^2 + 2y + y + 1 = 0$

$$(2y + 1)(y + 1) = 0$$

$$y = -\frac{1}{2}, -1$$

clearly, no relation can be established

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S52. Ans.(b)

Sol. I. $16x^2 + 12x + 4x + 3 = 0$

$(4x + 1)(4x + 3) = 0$

$x = -\frac{1}{4}, -\frac{3}{4}$

II. $9y^2 + 15y + 12y + 20 = 0$

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

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

clearly, $x > y$ **S53. Ans.(a)**

Sol. I. $9x^2 - 6x - 3x + 2 = 0$

$(3x - 1)(3x - 2) = 0$

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

II. $9y^2 - 12y - 6y + 8 = 0$

$(3y - 2)(3y - 4) = 0$

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

clearly, $x \leq y$ **S54. Ans.(e)**

Sol. I. $49x^2 + 21x - 7x - 3 = 0$

$(7x - 1)(7x + 3) = 0$

$x = \frac{1}{7}, -\frac{3}{7}$

II. $49y^2 + 35y + 21y + 15 = 0$

$(7y + 3)(7y + 5) = 0$

$y = -\frac{3}{7}, -\frac{5}{7}$

clearly, $x \geq y$ **S55. Ans.(e)**

Sol. I. $x = 8$

II. $y^2 = 64$

$y = \pm 8$

clearly, $x \geq y$ **S56. Ans.(b)****Sol.** ATQ

$6480 \times \frac{R}{100} = (7776 - 6480)$

$R = 20\%$

Equivalent rate of interest when compounded annually for two years at 20% per annum=44%

Required sum = $6480 \times \frac{100}{144} = \text{Rs } 4500$



S57. Ans.(c)**Sol.** Ratio of time taken by A to that of B = 5: 4

A alone can do the work in 40 days.

Time taken by B alone to do that work = 32 days

Let total work be 160 units (LCM of 40 and 32)

work completed by A in 15 days = $15 \times 4 = 60$ unit.Remaining work = $160 - 60 = 100$ unitTime taken by B to complete the remaining work = $\frac{100}{5} = 20$ days.**S58. Ans.(a)****Sol.** Let total votes cast be $100x$ Valid votes = $100x - 15x = 85x$ Winner votes = 60% of $85x = 51x$ Loser votes = $85x - 51x = 34x$

ATQ,

 $51x - 34x \rightarrow 1700$ $100x \rightarrow \frac{1700}{17} \times 100 = 10000$ **S59. Ans.(c)****Sol.**

Alloy A		Alloy B
Zn		Zn
$\frac{1}{2}$		$\frac{3}{8}$
\	$\frac{2}{5}$	/
/	$\frac{2}{5}$	\
$\frac{2}{5} - \frac{3}{8}$:	$\frac{1}{2} - \frac{2}{5}$
$\Rightarrow \frac{1}{40} : \frac{1}{10} \Rightarrow 1 : 4$		

S60. Ans.(d)**Sol.** Let C.P. of watch for A be Rs. 100

Amount paid by C

$$= 120 \times \frac{85}{100}$$

= Rs. 102

ATQ,

$$\text{C.P. of watch for A} = \frac{2550}{102} \times 100 = \text{Rs. 2500}$$

Required price at which A sold to B

$$= 2500 \times \frac{120}{100} = \text{Rs. 3000}$$

TEST SERIES

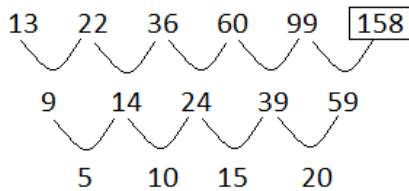
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S61. Ans.(d)

Sol. missing number = 158



S62. Ans.(a)

Sol. missing number = 1336

$$5 \times 3 + 1 = 16$$

$$16 \times 3 + 1 = 49$$

$$49 \times 3 + 1 = 148$$

$$148 \times 3 + 1 = 445$$

$$445 \times 3 + 1 = 1336$$

S63. Ans.(b)

Sol. missing number = 18

$$6 \times 0.5 + 1 = 4$$

$$4 \times 1 + 1 = 5$$

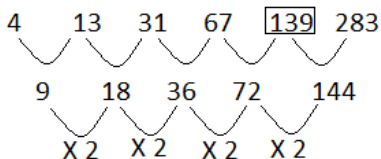
$$5 \times 1.5 + 1 = 8.5$$

$$8.5 \times 2 + 1 = 18$$

$$18 \times 2.5 + 1 = 46$$

S64. Ans.(e)

Sol. missing number = 139



S65. Ans.(c)

Sol. missing number = 1816

$$16 + 2^3 = 24$$

$$24 + 4^3 = 88$$

$$88 + 6^3 = 304$$

$$304 + 8^3 = 816$$

$$816 + 10^3 = 1816$$



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