

BOOKS



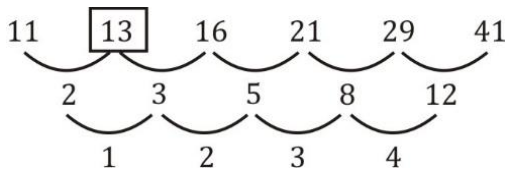
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SBI Clerk Prelims Memory Based 2019 (Solution)

Numerical Ability

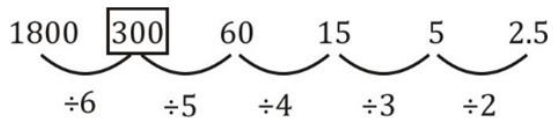
S36. Ans (d)

Sol.



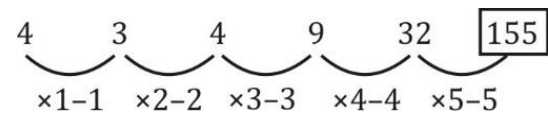
S37. Ans (a)

Sol.



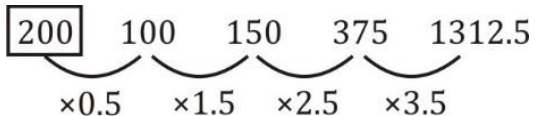
S38. Ans (b)

Sol.



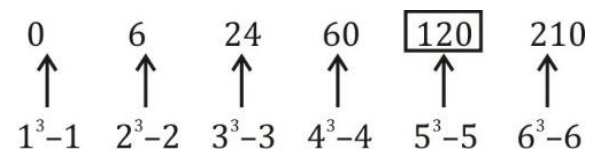
S39. Ans (e)

Sol.



S40. Ans (d)

Sol.



S41. Ans.(b)

Sol.

$$\begin{aligned}\text{Required average} &= \frac{72+90+48}{3} \\ &= 70\end{aligned}$$

S42. Ans.(a)

Sol.

$$\begin{aligned}\text{Required ratio} &= \frac{60+90}{90+70} \\ &= \frac{150}{160} \\ &= 15:16\end{aligned}$$

S43. Ans.(e)

Sol.

$$\begin{aligned}\text{Required \%} &= \frac{\{(72+48)-72\}}{72} \times 100 \\ &= \frac{200}{3} \% \\ &= 66\frac{2}{3} \%\end{aligned}$$

S44. Ans.(b)

Sol.

$$\begin{aligned}\text{Required difference} &= (72 + 90) - (78 + 70) \\ &= 162 - 148 \\ &= 14\end{aligned}$$

S45. Ans.(c)

Sol.

$$\begin{aligned}\text{Required \%} &= \frac{78+72}{60} \times 100 \\ &= \frac{150}{60} \times 100 \\ &= 250\%\end{aligned}$$

S46. Ans (d)

Sol.

$$\begin{aligned}17.28 \div ? &= 200 \times 3.6 \times 0.2 \\ ? &= \frac{17.28}{144} \\ &= 0.12\end{aligned}$$

S47. Ans (a)

Sol.

$$\begin{aligned}\frac{486}{?} \times \frac{7392}{66} &= 1008 \\ \frac{486}{?} &= \frac{1008}{112} \\ ? &= \frac{486}{9} \\ ? &= 54\end{aligned}$$



**SBI CLERK 2019
PRELIMS**

Memory Based Package

- Based on Papers of 22nd June 2019
- One Full Length Mock

S48. Ans (e)

Sol.

$$\frac{100}{700} \times 4200 \times \frac{1}{24} = (?)^{\frac{1}{2}}$$

$$25 = (?)^{\frac{1}{2}}$$

$$? = 625$$

S49. Ans (c)

Sol.

$$? = \frac{90 \times 7 \times 8}{5} = 1008$$

S50. Ans (b)

Sol.

$$? = \frac{0.3125}{2.5}$$

$$? = 0.125$$

S51. Ans. (b)

Sol.

$$\frac{1496}{17} = \frac{?}{100} \times 220$$

$$? = 40$$

S52. Ans (d)

Sol.

$$\frac{36}{100} \times 180 \times \frac{10}{4} = ?$$

$$? = 162$$

S53. Ans (b)

Sol.

$$0.08 \times 555 - 16.4 = ?$$

$$? = 44.4 - 16.4$$

$$? = 28$$

S54. Ans (d)

Sol.

$$\frac{35}{100} \times 150 \times 16 + 22 = ?$$

$$? = 840 + 22 = 862$$

S55. Ans (c)

Sol.

$$\frac{9240}{?} = 330$$

$$? = 28$$



S56. Ans.(e)**Sol.**Let the sum be Rs $100x$ CI in first year= Rs $20x$ CI in two years= 44% of $100x$ = Rs $44x$ CI in 2nd year= $44x-20x$ = Rs $24x$

ATQ

 $24x-20x=1200$ $x=300$

Required sum=Rs 30,000

S57. Ans.(b)**Sol.**

Speed in upstream=18 km/hr

Speed in downstream= 24 km/hr

Required total distance= $(24 + 18) \times 7 = 294 \text{ km}$ **S58. Ans.(d)****Sol.**Let income of A and B be Rs $5x$ and Rs $9x$ respectivelyExpenditure 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

S59. Ans.(c)**Sol.**

Let total work be 60 units (LCM of 12 and 7.5)

Efficiency of A= 5 units/ day

Efficiency of A and B together= 8 units/ day

Efficiency of B= 3 units/ day

Time taken by B alone to do that work=20 days

Time taken by C alone=23 days

S60. Ans.(b)**Sol.**

Side of the square=9 cm

Perpendicular side of the triangle= 12 cm

Hypotenuse of the triangle= $\sqrt{81 + 144} = \sqrt{225} = 15 \text{ cm}$

Perimeter of the triangle= 36 cm



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BILINGUAL

S61. Ans.(a)**Sol.**

I. $x^2 - 13x + 40 = 0$

$x^2 - 5x - 8x + 40 = 0$

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

$x = 5, 8$

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

$2y^2 - 6y + 5y - 15 = 0$

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

$y = 3, -5/2$

$x > y$

S62. Ans.(e)**Sol.**

I. $5x^2 + 17x + 6 = 0$

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

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

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

II. $2y^2 + 11y + 12 = 0$

$2y^2 + 8y + 3y + 12 = 0$

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

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

No relation

S63. Ans.(a)**Sol.**

$7x^2 - 19x + 10 = 0$

$7x^2 - 14x - 5x + 10 = 0$

$7x(x - 2) - 5(x - 2) = 0$

$x = 2, \frac{5}{7}$

II. $8y^2 + 2y - 3 = 0$

$8y^2 + 6y - 4y - 3 = 0$

$2y(4y + 3) - 1(4y + 3) = 0$

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

$x > y$



S64. Ans.(a)**Sol.**

I. $x^2 - 8x + 15 = 0$

$\Rightarrow x^2 - 5x - 3x + 15 = 0$

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

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

$\therefore x = 3 \text{ or } 5$

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

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

$\Rightarrow y(y - 2) - 1(y - 2) = 0$

$\Rightarrow (y - 1)(y - 2) = 0$

$\therefore y = 1 \text{ or } 2$

$\therefore x > y$

S65. Ans.(c)**Sol.**

I. $3x^2 - 7x + 4 = 0$

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

$\Rightarrow (3x - 4)(x - 1) = 0$

$x = \frac{4}{3} \text{ or } 1$

II. $2y^2 - 9y + 10 = 0$

$\Rightarrow 2y^2 - 4y - 5y + 10 = 0$

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

$\Rightarrow y = \frac{5}{2} \text{ or } 2$

$y > x$

**S66. Ans.(d)****Sol.**

Let the distance be D km

ATQ

$$\frac{D}{\left(\frac{D}{2x} + \frac{D}{8x}\right)} = 36.8$$

$x = 23$

S67. Ans.(a)**Sol.**

Ratio of their profit sharing

$A : B : C = 7 \times 3 : 8 \times 12 : 5 \times 7 = 21 : 96 : 35$

Annual profit = 136800

Difference b/w A and C's share of profit

$$= \frac{14}{152} \times 136800$$

$$= \text{Rs } 12,600$$

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BILINGUAL

S68. Ans.(a)**Sol.**Let SP of both article = $8x$

ATQ,

	Article1	Article2	
CP	$6x$	$4x$	$= 10x$
SP	$8x$	$8x$	$= 16x$

$\left. \begin{matrix} 6x \\ 8x \end{matrix} \right\} \times \frac{3}{4}$ $\left. \begin{matrix} 4x \\ 8x \end{matrix} \right\} \times \frac{1}{2}$

$$\text{Profit \%} = \frac{16x - 10x}{10x} \times 100 = 60\%$$

S69. Ans.(a)**Sol.**

Let initial quantity of milk and water in the mixture be '40x liters' and '10x liters' respectively.

ATQ,

$$\frac{(40x \times \frac{1}{2})}{10x \times \frac{1}{2} + 24} = \frac{1}{1}$$

$$\frac{20x}{5x + 24} = \frac{1}{1}$$

$$20x = 5x + 24$$

$$15x = 24$$

$$x = 1.6$$

So, required quantity = $40x + 10x$
 $= 50x$
 $= 80$ liters

S70. Ans.(b)**Sol.**

Let age of Shivam and Deepak 4 years ago be '2x years' and '3x years' respectively.

ATQ,

$$\frac{2x}{3x + 4 + 5} = \frac{8}{15}$$

$$\frac{2x}{3x + 9} = \frac{8}{15}$$

$$30x = 24x + 72$$

$$6x = 72$$

$$x = 12$$

So, present age of Shivam = $2x + 4$
 $= 28$ years

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