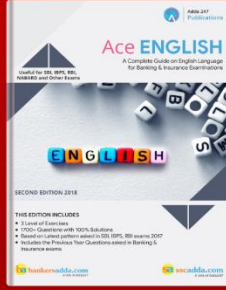
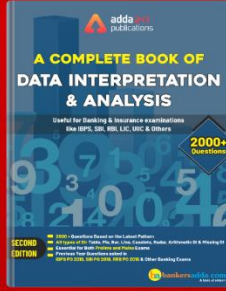
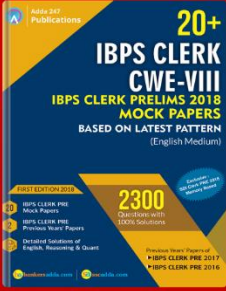
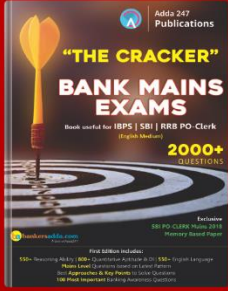
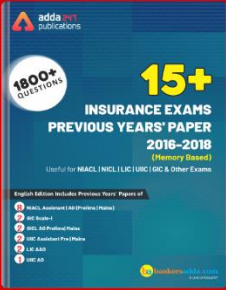
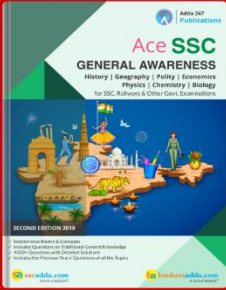
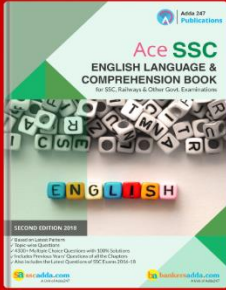
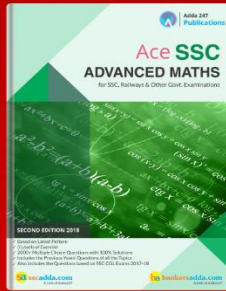
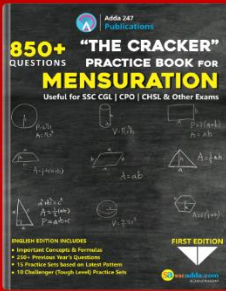
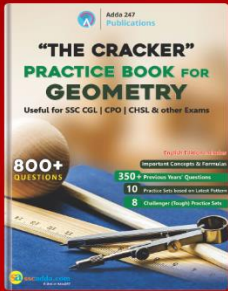




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S41. Ans.(b)

Sol.

The wrong no. is 328

$$1 \times 1 + 1 = 2$$

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

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

$$16 \times 4 + 1 = 65$$

$$65 \times 5 + 1 = 326$$

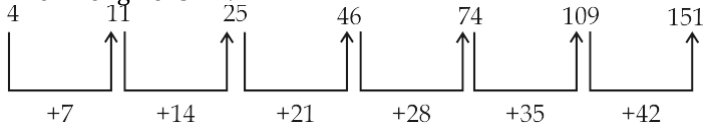
$$326 \times 6 + 1 = 1957$$

So, there should be 326 instead of 328

S42. Ans.(a)

Sol.

The wrong no is 129

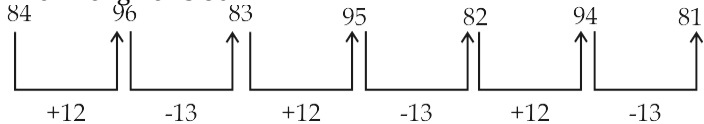


So, there should be 109 instead of 129

S43. Ans.(d)

Sol.

The wrong no. is 80

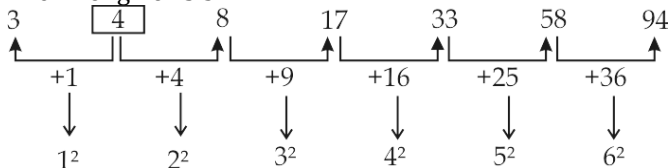


So, there should be 82 instead of 80

S44. Ans.(e)

Sol.

The wrong no. is 5



So, there should be 4 instead of 5.

S45. Ans.(d)

Sol.

Upstream speed of boat=18 km/hr

Downstream speed of boat=22 km/hr

$$\text{Speed of boat in still water} = \frac{18+22}{2} = 20 \text{ km/h}$$

S46. Ans.(b)

Sol.

Let the capacity of the tank be 180 units (LCM of 36 and 60)

Efficiency of tap A=5 units/ minute

Efficiency of tap B=3 units/minute

$\frac{1}{6}$ th of the tank= 30 units

$$\text{Required time} = \frac{30}{5+3} = 3\frac{3}{4} \text{ minutes}$$

S47. Ans.(a)

Sol.

$$\text{Radius of first circle} = \frac{132 \times 7}{2 \times 22} = 21 \text{ cm}$$

$$\text{Area of first circle} = \frac{22}{7} \times 21 \times 21 = 1386 \text{ cm}^2$$

$$\text{Radius of second circle} = \frac{110 \times 7}{2 \times 22} = 17.5 \text{ cm}$$

$$\text{Area of second circle} = \frac{22}{7} \times 17.5 \times 17.5 = 962.5 \text{ cm}^2$$

$$\text{Required difference} = 423.5 \text{ cm}^2$$

S48. Ans.(e)

Sol.

Ratio of milk to that of water in the initial mixture=16:5

$\frac{1}{4}$ th of the mixture=21 liter

$$\frac{64 - 21 \times \frac{16}{21}}{20 - 21 \times \frac{5}{21} + x} = \frac{2}{1}$$

$$x = 9 \text{ liter}$$

S49. Ans.(b)

Sol.

ATQ

$$20x + 4 \times (x - 2) = 424$$

$$24x = 432$$

$$x = 18$$

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S50. Ans.(e)

Sol.

Let present age of B and C be 12x years and 5x years respectively.

Then present age of A=10x years

ATQ

$$12x - 10x = 6$$

$$x = 3$$

Present age of B=36 years

S51. Ans.(a)

Sol. Average number of X type buses from school B and school C together = $\frac{36+44}{2} = 40$

S52. Ans.(e)

Sol. X type buses of school A = 48

X type buses of school B = 36

Required value = $\frac{48-36}{36} \times 100 = 33\frac{1}{3}\%$

S53. Ans.(c)

Sol. Average number of all the buses from school B = $\frac{36+26}{2} = 31$

S54. Ans.(b)

Sol. Average number of all the buses from school A = $\frac{48+38}{2} = 43$

Average number of all the buses from school C = $\frac{44+34}{2} = 39$

Required difference = $43 - 39 = 4$

S55. Ans.(e)

Sol. Total buses from school A = $48 + 38 = 86$

Total buses from school B = $36 + 26 = 62$

Total buses from school C = $44 + 34 = 78$

Clearly, School A has maximum number of buses.



S56. Ans.(e)

Sol.

$$\begin{array}{l} \text{I. } 2x^2 - 4x - x + 2 = 0 \\ \Rightarrow 2x(x-2) - 1(x-2) = 0 \\ \Rightarrow (2x-1)(x-2) = 0 \\ \Rightarrow x = \frac{1}{2}, 2 \end{array} \quad \left| \quad \begin{array}{l} \text{II. } 2y^2 - 9y + 7 = 0 \\ \Rightarrow 2y^2 - 7y - 2y + 7 = 0 \\ \Rightarrow y(2y-7) - 1(2y-7) = 0 \\ \Rightarrow y = \frac{7}{2}, 1 \end{array} \right.$$

∴ No relation

S57. Ans.(a)

Sol.

$$\begin{array}{l} \text{I. } 3x^2 + 3x + 4x + 4 = 0 \\ \Rightarrow 3x(x+1) + 4(x+1) = 0 \\ \Rightarrow x = -1, -\frac{4}{3} \end{array} \quad \left| \quad \begin{array}{l} \text{II. } y^2 + 5y + 4y + 20 = 0 \\ \Rightarrow y(y+5) + 4(y+5) = 0 \\ \Rightarrow y = -4, -5 \end{array} \right.$$

∴ $x > y$

S58. Ans.(d)

Sol.

$$\begin{array}{l} \text{I. } x^2 - 5x - 2x + 10 = 0 \\ \Rightarrow x(x-5) - 2(x-5) = 0 \\ \Rightarrow x = 2, 5 \end{array} \quad \left| \quad \begin{array}{l} \text{II. } y^2 - 9y - 5y + 45 = 0 \\ \Rightarrow y(y-9) - 5(y-9) = 0 \\ \Rightarrow y = 9, 5 \end{array} \right.$$

∴ $x \leq y$

S59. Ans.(a)

Sol.

$$\begin{array}{l} \text{I. } x^2 - 3x - 4 = 0 \\ x^2 - 4x + x - 4 = 0 \\ (x-4)(x+1) = 0 \\ x = 4, -1 \\ \text{II. } y^2 + 6y + 8 = 0 \\ y^2 + 2y + 4y + 8 = 0 \\ (y+2)(y+4) = 0 \\ y = -2, -4 \\ \Rightarrow x > y \end{array}$$

S60. Ans.(b)

Sol.

$$\begin{array}{l} \text{I. } x^2 - 3x = 10 \\ x^2 - 3x - 10 = 0 \\ x^2 - 5x + 2x - 10 = 0 \\ (x-5)(x+2) = 0 \\ x = -2, 5 \\ \text{II. } y^2 + 7y + 10 = 0 \\ y^2 + 5y + 2y + 10 = 0 \\ (y+5)(y+2) = 0 \\ y = -2, -5 \\ \Rightarrow x \geq y \end{array}$$

S61. Ans.(b)

Sol.

items sold by A and B on Monday = $200 + 160 = 360$

Item sold by B and C on Wednesday = $320 + 280 = 600$

∴ Required ratio = $\frac{360}{600} = \frac{6}{10} = \frac{3}{5}$

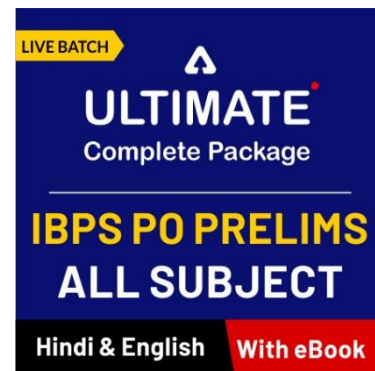
Ans. = 3 : 5

S62. Ans.(c)

Sol. Average of items sold by A, B, C on Wednesday

$$\begin{aligned} &= \frac{210+320+280}{3} \\ &= \frac{810}{3} \\ &= 270 \end{aligned}$$

Ans. = 270



S63. Ans.(a)

Sol.

items sold by A and B on Tuesday = $240 + 180 = 420$

Items sold by B and C on Wednesday = $320 + 280 = 600$

∴ Required percentage = $\frac{420 \times 100}{600} = 70\%$

∴ Ans. 70%

S64. Ans.(d)

Sol.
items sold by B on Monday and Tuesday = $200 + 180 = 380$

Items sold by A on Tuesday and Wednesday = $240 + 210 = 450$

∴ Required difference = $450 - 380 = 70$

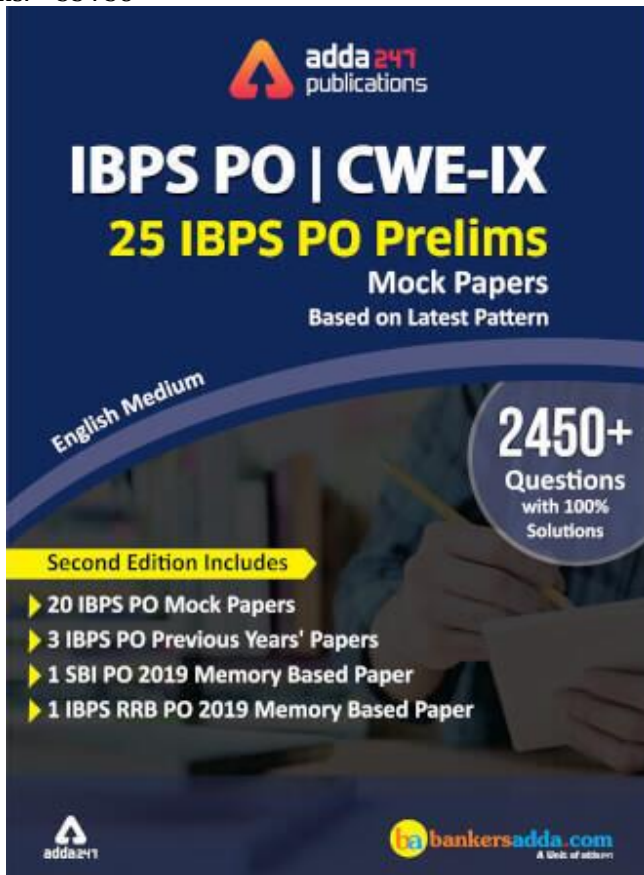
S65. Ans.(a)

Sol. item sold by B on all 3 days = $200 + 180 + 320 = 700$

Items sold by C on all 3 days = $150 + 330 + 280 = 760$

Required ratio = $\frac{700}{760} = \frac{35}{38}$

Ans. = $35 : 38$



S66. Ans.(c)

Sol.

Let the marked price be Rs $100x$

Then selling price = Rs $85x$

Cost price = Rs $\frac{200}{3}x$

ATQ

$100x - \frac{200}{3}x = 250$

$x = 7.5$

Cost price = Rs 500

S67. Ans.(e)

Sol.

Let the number of students in the exam be $55x$

Then number of boys = $36x$

Number of girls = $19x$

ATQ

$55x + 1725 = (36x + 1440) + 19x \times 1.15$

$x = 100$

Increased number of boys = $3600 + 1440 = 5040$

S68. Ans.(e)

Sol.

Let the salary of A and B be Rs $100x$ and Rs $300x$ respectively
ATQ

$85x + 255x = 42500$

$x = 125$

House rent paid by A = Rs 1875

S69. Ans (b)

Sol.

	A	:	B	:	C	
Capital →	50000	:	75000	:	1,25,000	
Time →	2	:	$\frac{3}{2}$:	1	
Profit →	100000	:	112500	:	125000	
	Required ratio = 8:9:10					

S70. Ans.(c)

Sol. ATQ, $\frac{1102.50}{1000} = \left(1 + \frac{r}{100}\right)^2$

or, $\left(1 + \frac{r}{100}\right)^2 = \left(\frac{105}{100}\right)^2$

or, $\left(1 + \frac{r}{100}\right)^2 = \left(1 + \frac{5}{100}\right)^2$

Thus, on comparing, $r = 5\%$

S71. Ans.(e)

Sol.

$?^2 = 40\% \text{ of } \frac{5}{11} \times 352$

$?^2 = \frac{2}{5} \times \frac{5}{11} \times 352 = 64$

$\Rightarrow ? = 8$

S72. Ans.(e)

Sol.

$?^2 = \frac{(\sqrt{1444} + \sqrt{676})}{4} = \frac{38 + 26}{4} = \frac{64}{4} = 16$

$? = 4$

S73. Ans.(b)

Sol.

$(? - 0.5) = 60 \times 0.2$

$? = 12 + 0.5 = 12.5$

S74. Ans.(d)

Sol.

$\frac{60}{100} \times ? - 18 = 222$

$\frac{60}{100} \times ? = 240$

$? = \frac{240 \times 100}{60}$

$? = 400$

S75. Ans.(c)

Sol.

$\frac{8 \times 9 \times ?}{90} = 8$

$? = \frac{90 \times 8}{8 \times 9} = 10$

$? = 10$

S76. Ans.(a)

Sol.

$\sqrt{4 \times ?} = 16$

$$4 \times ? = 256$$
$$? = 64$$

S77. Ans.(d)

Sol.

$$77 + 92 = ?^2$$

$$169 = ?^2$$

$$? = 13$$

S78. Ans.(e)

Sol.

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

$$? = 10$$

S79. Ans (b)

$$\text{Sol. } \frac{9}{2} \times 8 = ? \times 10$$

$$? = 3.6$$

S80. Ans (c)

$$\text{Sol. } \frac{80}{100} \times (6+?) = 24$$

$$6+? = 30$$

$$? = 24$$

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