

# BOOKS

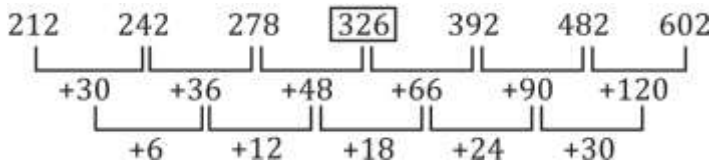


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## Solutions

**S36. Ans.(b)**

**Sol.**



So, there must be 326 instead of 324.

**S37. Ans.(e)**

**Sol.**  $12 \times 1 + 1 = 13$

$13 \times 2 + 2 = 28$

$28 \times 3 + 3 = 87$

$87 \times 4 + 4 = \boxed{352}$

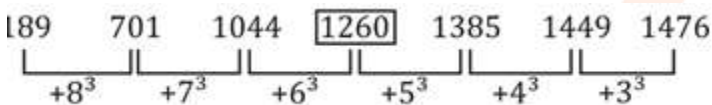
$352 \times 5 + 5 = 1765$

$1765 \times 6 + 6 = 10596$

So, there must be 352 instead of 351

**S38. Ans.(a)**

**Sol.**



So, there must be 1260 instead of 1263.

**S39. Ans.(d)**

**Sol.**  $9 \times 2 = 18$

$18 \times 4 = \boxed{72}$

$72 \times 6 = 432$

$432 \times 8 = 3456$

$3456 \times 10 = 34560$

$34560 \times 12 = 414720$

So, there must be 72 instead of 76.

**S40. Ans.(b)**

**Sol.**  $12 + 18 = 30$

$30 + 18 = 48$

$48 + 30 = \boxed{78}$

$78 + 48 = 126$

$126 + 78 = 204$

So, there must be 78 instead of 72.

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**S41. Ans.(c)**

$$\text{Sol. no. of people who visited on Wednesday} = 1200 \times \frac{20}{100} = 240$$

$$\text{Required percentage} = \frac{240-96}{240} \times 100 = 60\%$$

**S42. Ans.(a)**

$$\text{Sol. no. of male visited on Monday} = 1200 \times \frac{30}{100} - 144 = 216$$

$$\text{Required ratio} = 216:128$$

$$= 27:16$$

**S43. Ans.(b)**

$$\text{Sol. total no. of female who visited park} = 144 + 314 + 96 + 128 = 682$$

$$\text{Total no. of males who visited park} = 1200 - 682 = 518$$

$$\text{Required difference} = 682 - 518 = 164$$

**S44. Ans.(d)**

$$\text{Sol. total no. of male visited on Wednesday} = 1200 \times \frac{20}{100} - 96 = 144$$

$$\text{Total no. of people who visited on Monday} = 1200 \times \frac{30}{100} = 360$$

$$\text{Required percentage} = \frac{144}{360} \times 100 = 40\%$$

**S45. Ans.(e)**

$$\text{Sol. no. of male who visited on Tuesday} = 1200 \times \frac{35}{100} - 314 = 106$$

$$\text{No. of male who visited on Friday} = \frac{25}{100} \left[ 1200 \times \frac{30}{100} - 144 \right] = 54$$

$$\text{Required ratio} = 106:54$$

$$= 53:27$$

**S46. Ans.(c)**

**Sol.** Let time taken be T sec.

$$\text{So, } T = \frac{200}{(25-5)} = \frac{200}{20} = 10 \text{ sec}$$

**S47. Ans.(c)**

**Sol.** Total no. of possible outcomes = 36

Possibility of getting sum of 6 = 5 i.e. [ (1,5), (2,4), (3,3), (4,2), (5,1) ]

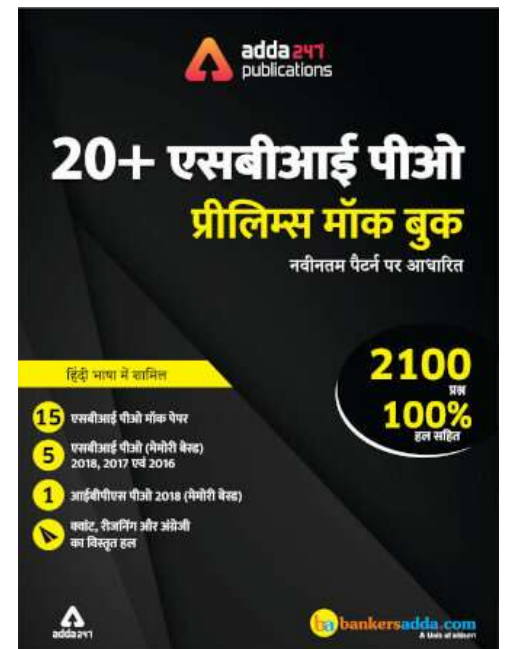
$$\text{So, required possibility} = \frac{5}{36}$$

**S48. Ans.(d)**

**Sol.** Let B invested Rs x.

$$\text{Ratio of profit share of A and B} = \frac{12000 \times 12}{x \times 5} = \frac{1}{1}$$

$$x = \text{Rs. } 28800$$



**S49. Ans.(e)****Sol.** Quantity of alcohol in the initial mixture =  $1 - 0.3 = 0.7$  litLet  $x$  lit of alcohol is added in the mixture.

ATQ

$$\frac{0.7 + x}{0.3} = \frac{85}{15}$$

$$x = 1 \text{ lit}$$

**S50. Ans.(e)****Sol.** Let the total capacity of the cistern be 60 units (LCM)

So, the efficiency of pipe A = 4 units/hr

The efficiency of pipe B = 5 units/hr

So, the time taken by pipe A and B together *and due to leakage* =  $\frac{60}{9} + \frac{20}{60} = 7 \text{ hours}$ Let efficiency of leakage is  $x$  units/hr

ATQ

$$7(5 + 4 - x) = 60$$

$$x = \frac{3 \text{ units}}{7 \text{ hr}}$$

$$\text{Required time} = \frac{60}{3} \times 7 = 140 \text{ hr}$$

**S51. Ans.(e)****Sol.** Let the age of the father and son is  $8x$  and  $x$  respectively.So, the age of the mother is  $7x$ .

ATQ

$$8x = 7x + 6$$

$$x = 6$$

So, the age of the father =  $8x = 48$ **S52. Ans.(b)****Sol.** Laptops sold by company-B & C together in May =  $1000 + 800 = 1800$ 

Laptops sold by company-D in April = 1200

$$\text{Required \%} = \frac{1800 - 1200}{1200} \times 100$$

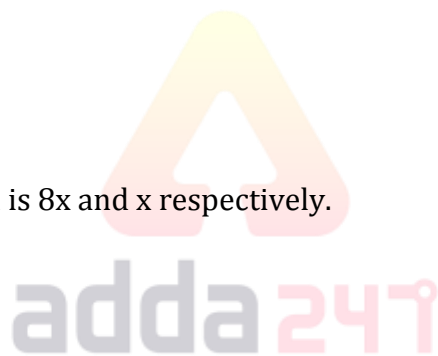
$$= \frac{600}{1200} \times 100 = 50\%$$

**S53. Ans.(d)****Sol.** Laptops sold by company-A & B together in April =  $800 + 400$ 

$$= 1200$$

Average number of laptops sold by company-C &amp; E in May

$$= \left( \frac{800 + 1200}{2} \right) = 1000$$

Required difference =  $1200 - 1000 = 200$ **SBI CLERK 2019**Ace - Reasoning | Quant | English  
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**S54. Ans.(b)****Sol.** Laptops sold by company-B & E together in April =  $400 + 600 = 1000$ Laptops sold by company-C & D together in May =  $800 + 960 = 1760$ 

$$\text{Required ratio} = \frac{1000}{1760}$$

$$= 25 : 44$$

**S55. Ans.(a)****Sol.** Average number of laptops sold by company-A, D & E in May =  $\frac{1200 + 960 + 1200}{3} = 1120$ 

$$\text{Required \%} = \frac{1120}{1000} \times 100 = 112\%$$

**S56. Ans.(e)****Sol.** Total laptops sold by all 5 companies in May =  $1200 + 1000 + 800 + 960 + 1200 = 5160$ Total laptops sold by all 5 companies in April =  $800 + 400 + 1000 + 1200 + 600 = 4000$ 

$$\text{Required \%} = \frac{5160 - 4000}{4000} \times 100$$

$$= \frac{1160}{40} \%$$

$$= 29\%$$

**S57. Ans.(c)****Sol.** Laptop sold by company-A & E together in April =  $800 + 600 = 1400$ Laptop sold by company-B & D together in May =  $1000 + 960 = 1960$ 

$$\text{Required ratio} = \frac{1400}{1960}$$

$$= \frac{5}{7} = 5 : 7$$

**S58. Ans.(a)****Sol.** Let the cost price of first product and second product be Rs x and Rs y respectively.

$$\text{So, } x + y = 4400 \dots\dots(i)$$

$$x + y = \frac{115}{100}x + \frac{82}{100}y \dots\dots(ii)$$

From (i) and (ii)

$$\frac{x}{y} = \frac{6}{5}$$

$$\text{Let } x = 6a \text{ and } y = 5a$$

$$\text{So, } 11a = 4400$$

$$a = 400$$

$$\text{So, } x = 2400$$

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**S59. Ans.(a)**

**Sol.** Let monthly salary = Rs  $100x$

ATQ

$$100x \times \frac{90}{100} \times \frac{70}{100} = 63x$$

Let total expense on medicine and groceries =  $3y + 4y = 7y$

So,  $7y = 63x$

$$y = 9x$$

Given,  $3y = 8100$ ,

So,  $y = 2700$

Now,  $x = 300$

$\therefore$  monthly salary of the man =  $100x = \text{Rs } 30,000$

**S60. Ans.(b)**

**Sol.** Let  $r$  be the radius of the sphere.

Given,  $4\pi r^2 = 616$

$$r = 7 \text{ cm}$$

So, side of the square =  $7 \text{ cm}$

Now, perimeter of the square =  $4 \times 7 = 28 \text{ cm}$

**S61. Ans.(b)**

**Sol.** Upstream speed of first boat =  $8 \text{ km/h}$

Upstream speed of second boat =  $4 \text{ km/h}$

Relative speed =  $4 \text{ km/h}$

Required time =  $10/4 = 2.5 \text{ hours}$

**S62. Ans.(d)**

**Sol.** Let length and breadth of the rectangle be  $l \text{ cm}$  and  $b \text{ cm}$  and side of the square be  $a \text{ cm}$ .

ATQ

$$l \times b = 4a^2$$

$$60 \times a = 4a^2$$

$$a = 15 \text{ cm}$$

**S63. Ans.(b)**

**Sol.** Let A and B can do  $3x$  and  $4x$  unit of work in one day.

So,

$$\text{Total work} = (3x + 4x) \times 8 = 56x$$

$$(A + B) \text{ two day work} = 7x \times 2 = 14x$$

$$\text{Remaining work} = 42x$$

$$\text{In 6 days B will complete} = 6 \times 4x = 24x \text{ units}$$

So, remaining  $18x$  units are completed by C in 6 day

So,

$$56x \text{ unit will be completed in} = \frac{56x}{\frac{18x}{6}} = \frac{56}{3} \text{ days}$$

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**S64. Ans.(d)****Sol.** Profit will be shared in ratio

$$= 4 \times 6 : 8 \times 3 : 9 \times 4$$

$$= 2 : 2 : 3$$

$$C's \text{ profit} = \frac{16750}{2} \times 3 = 25125$$

**S65. Ans.(b)**

$$\text{Sol. } 9 \times 49 = \frac{72}{?} - \frac{9}{?}$$

$$? = \frac{1}{7}$$

**S66. Ans.(c)****Sol.**

$$110 \times \frac{420}{70} + 500 - 40 = ? \times \frac{5600}{100}$$

$$660 + 460 = 56 \times ?$$

$$? = \frac{1120}{56}$$

$$? = 20$$

**S67. Ans.(b)****Sol.**

$$60\% \text{ of } 1540 + \frac{37.5}{100} \times 96 + 1 \approx (?)^2$$

$$\Rightarrow 924 + \frac{3}{8} \times 96 + 1 = (?)^2$$

$$\Rightarrow (?)^2 = 924 + 36 + 1$$

$$\Rightarrow (?)^2 = 961$$

$$\Rightarrow ? = 31$$

**S68. Ans.(e)**

$$\text{Sol. } ?^3 \approx (75)^2 - (25)^2 - (30)^2 = 5625 - 625 - 900 = 4100$$

$$\text{Or } ? \approx 16$$

**S69. Ans.(c)****Sol.**

$$(2)^{?+2} = \frac{512}{32} \times \frac{64}{128} \times 8$$

$$= \frac{2^9 \times 2^6 \times 2^3}{2^5 \times 2^7} = 2^{9+6+3-5-7}$$

$$= 2^6$$

$$? + 2 = 6 \Rightarrow ? = 4$$



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**S70. Ans.(a)**

**Sol.**

$$\frac{70}{100} \times \frac{445}{14} = \frac{436}{?}$$

$$? = \frac{436}{70 \times 445} \times 14 \times 100$$

$$? \approx 20$$

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