

BOOKS



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S41. Ans.(c)

Sol. Average no. of females in HR dept

$$= 80 \times \frac{75}{100} + 50 \times \frac{80}{100} + 100 \times \frac{60}{100} + 60 \times \frac{60}{100}$$

$$= \frac{60+40+60+36}{4} = \frac{196}{4} = 49$$

S42. Ans.(b)

Sol. Females in company C (HR) = $100 \times \frac{60}{100} = 60$

Males in company A (HR) = $80 \times \frac{25}{100} = 20$

Difference = $60 - 20 = 40$

$\therefore \% = \frac{40}{20} \times 100 = 200\%$ more

S43. Ans.(c)

Sol. Total employee in E = $200 \times \frac{125}{100} = 250$

\therefore employee of HR dept in E = 100

\therefore other employee = 150

$\therefore \%$ of other employee = $150 \times \frac{100}{200} = 75\%$

S44. Ans.(a)

Sol. Males in HR dept in C and D

$$= 100 \times \frac{40}{100} + 60 \times \frac{40}{100} = 40 + 24 = 64$$

Females in HR dept of B and C = $50 \times \frac{80}{100} + 100 \times \frac{60}{100} = 100$

\therefore Difference = $100 - 64 = 36$

S45. Ans.(e)

Sol. Average of A, B, C

$$= \frac{220+200+300}{3} = \frac{720}{3} = 240$$

S46. Ans.(a)

Sol. Total females in company C = 150

females in HR department in company C = $100 \times \frac{60}{100} = 60$

Therefore females other than in HR department = $150 - 60 = 90$



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S47. Ans.(b)

Sol.

$$\begin{array}{cccccc} 1864 & 1521 & 1305 & \boxed{1180} & 1116 & 1089 \\ & \underbrace{\hspace{1.5cm}} & \underbrace{\hspace{1.5cm}} & \underbrace{\hspace{1.5cm}} & \underbrace{\hspace{1.5cm}} & \\ -343 & -216 & -125 & -64 & -27 & \\ = -7^3 & = -6^3 & = -5^3 & = -4^3 & = -3^3 & \end{array}$$

S48. Ans.(b)

Sol. 18, ?, 9, 18, 72, 576

$$18 \times 0.5 = \boxed{9}$$

$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$18 \times 4 = 72$$

$$72 \times 8 = 576$$

S49. Ans.(d)

Sol. $12 \times 0.5 + 0.5 = 6.5$

$$6.5 \times 1 + 1 = 7.5$$

$$7.5 \times 1.5 + 1.5 = 12.75$$

$$12.75 \times 2 + 2 = 27.5$$

$$27.5 \times 2.5 + 2.5 = \boxed{71.25}$$

S50. Ans.(b)

Sol. $5 \times 2 + 5 = 15$

$$15 \times 3 + 5 = 50$$

$$50 \times 4 + 5 = \boxed{205}$$

$$205 \times 5 + 5 = 1030$$

$$1030 \times 6 + 5 = 6185$$

S51. Ans.(d)

Sol.

$$\begin{array}{cccccc} 130 & 154 & 186 & \boxed{226} & 274 & 330 \\ & +24 & +32 & +40 & +48 & +56 \end{array}$$

S52. Ans.(b)

Sol. $(D_s - D_u) 3 = 18 \text{ km}$

Different in 1 hr. = 6km

D_s and D_u

\therefore Speed of boat in still water = 20 km/hr.

$D_s = 23 \text{ km/hr.}, D_u = 17 \text{ km/hr.}$

Distance travelled = $4 \times 23 = 92 \text{ km}$



S53. Ans.(c)**Sol.**

A		B
12000		16000
$\times 10$		$\times 9$
120	:	144
5	:	6

$$\therefore \text{B's share} = 22000 \times \frac{6}{11} = 12000$$

S54. Ans.(b)**Sol.**

	P	Q
-4	5	4
+12	P	+ Q = 68

Age increased in 16 year = 32 years

Sum of Age of P and Q before 4 years = 36

$$\therefore 5x + 4x = 36$$

$$X = 4$$

$$\text{P's age 2 years ago} = 5x + 2 = 22 \text{ years}$$

**S55. Ans.(b)****Sol.**

A	B	C
15	20	12
+4	+3	-5
60		

$$\therefore \text{tank filled in 1 min} = 2 \text{ units}$$

$$\text{Total time} = \frac{60}{2} = 30 \text{ minutes}$$

S56. Ans.(d)

$$\text{Sol. } x^2 = 81$$

$$x = \pm 9$$

$$y^2 - 18y + 81 = 0$$

$$(y - 9)^2 = 0$$

$$\therefore y = 9, 9$$

$$\therefore x \leq y$$

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S57. Ans.(e)

Sol. $4x^2 - 24x + 30 = 0$

$4x^2 - 16x - 8x + 32 = 0$

$4x(x - 4) - 8(x - 4) = 0$

$x = 4, 2$

$y^2 - 8y + 15 = 0$

$y^2 - 5y - 3y + 15 = 0$

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

$\therefore y = 5, 3$

\therefore No relation exists

S58. Ans.(c)

Sol. $x^2 - 21x + 108 = 0$

$x^2 - 9x - 12x + 108 = 0$

$x(x - 9) - 12(x - 9) = 0$

$x = 9, 12$

$y^2 - 17y + 72 = 0$

$\therefore y^2 - 8y - 9y + 72 = 0$

$y(y - 8) - 9(y - 8) = 0$

$\therefore y = 8, 9$

$\therefore x \geq y$

S59. Ans.(b)

Sol. $x^2 - 11x + 30 = 0$

$x^2 - 6x - 5x + 30 = 0$

$\therefore x(x - 6) - 5(x - 6) = 0$

$x = 6, 5$

$y^2 - 15y + 56 = 0$

$y^2 - 7y - 8y + 56 = 0$

$y(y - 7) - 8(y - 7) = 0$

$\therefore y = 7, 8$

$\therefore x < y$

S60. Ans.(c)

Sol. $x^3 = 512$

$x = \sqrt[3]{512} = 8$

$y^2 = 64$

$y = \sqrt{64} = \pm 8$

$\therefore x \geq y$



S61. Ans.(b)**Sol.** Let CP = 100 x

∴ marked price = 150x

∴ selling price after giving discount = 132x

∴ 32x = 256

x = 8

∴ CP = Rs 800

S62. Ans.(b)**Sol.** Item sold by A and C = 550 + 570 = 1120

Item sold by B and D = 750 + 650 = 1400

∴ diff. = 1400 - 1120 = 280

S63. Ans.(a)**Sol.** Average = $\frac{300+350+250+380+210}{5}$ = $\frac{1490}{5} = 298$ **S64. Ans.(c)****Sol.** Item sold by B and C on Monday = 350 + 250 = 600

Item sold by B and C on Tuesday = 400 + 320 = 720

∴ % increase = $120 \times \frac{100}{600} = 20\%$ **S65. Ans.(d)****Sol.** Items sold on Monday by B, D and E = 350 + 380 + 210 = 940

Item sold on Tuesday by B and E = 400 + 420 = 820

∴ diff = 940 - 820 = 120

S66. Ans.(a)**Sol.** Item sold by C and E on Monday = 250 + 210 = 460

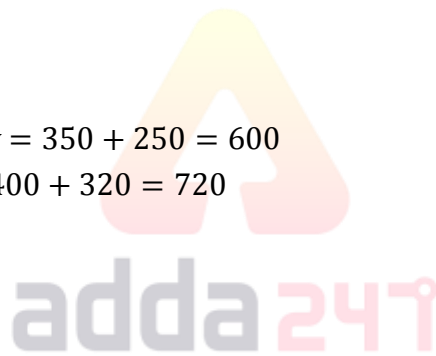
Item sold by A and B together on Tuesday = 400 + 250 = 650

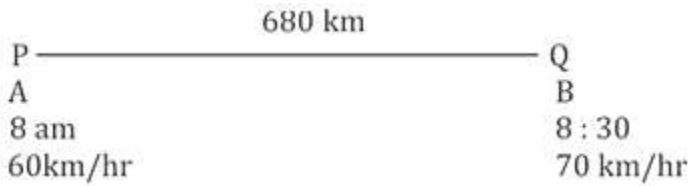
∴ ? = $460 \times \frac{100}{650}$

≈ 71% (approx)

S67. Ans.(b)**Sol.** Avg. by A and B on Monday = $\frac{650}{2} = 325$ Avg. of B and C on Tuesday = $\frac{720}{2} = 360$

Diff. = 360 - 325 = 35



S68. Ans.(b)**Sol.**

Dist travelled by A in $\frac{1}{2}$ hr = 30 km

Remaining distance to be covered = 680 - 30 = 650 km

Relative speed = 60 + 70 = 130

\therefore time taken = $\frac{650}{130} = 5$ hr

\therefore time = 8 : 30 + 5 hr

= 1 : 30 pm

S69. Ans.(a)**Sol.** By going with the options

Interest received at SI = $\frac{6000 \times 3 \times 15}{100} = 2700$ Rs

$\therefore T + 5 = 20\%$

Interest received after 2 yrs at CI = $\frac{6000 \times 44}{100} = 2640$

\therefore Difference = 2700 - 2640 = 60 Rs

T = 15%

Solutions (70-74):

Let total students in A = x

And, total students in B = y

Total students in school A in commerce stream = $x \times \frac{75}{4} \times \frac{1}{100} = \frac{3x}{16}$

Total students in school B in science stream = $y \times \frac{200}{7} \times \frac{1}{100} = \frac{2y}{7}$

Given, $\frac{3x}{16} + \frac{2y}{7} = 420$ ----- (i)

And $x + y = 1800$ -----(ii)

So, from (i) and (ii),

Total students in school A = 960

And total students in school B = 840

Total students in school B in commerce stream = $\frac{400}{21} \times \frac{1}{100} \times 840 = 160$

Total students in school A in art stream = $\frac{1}{2} \times 960 = 480$

Now, total students in school A in science stream = $960 - \frac{3}{16} \times 960 - 480 = 300$

And total students in school B in art stream = $840 - \frac{2}{7} \times 840 - 160 = 440$

Streams	A	B
Art	480	440
Commerce	180	160
Science	300	240

S70. Ans.(d)

$$\text{Sol. Required percentage} = \frac{480 - 240}{240} \times 100 = 100\%$$

S71. Ans.(a)

$$\text{Sol. Required ratio} = \frac{160}{300} = 8 : 15$$

S72. Ans.(e)

Sol. Total student art & commerce stream in C

$$= 720 - 160 \times \frac{125}{100} = 520$$

$$\text{Required difference} = (480 + 180) - 520 = 140$$

S73. Ans.(b)

$$\text{Sol. Required average} = \frac{300 + 240}{2} = \frac{540}{2} = 270$$

S74. Ans.(c)

$$\text{Sol. Total boys in art stream of school A \& B together} = 480 \times \frac{5}{8} + 440 \times \frac{7}{11}$$

$$= 300 + 280 = 580$$

$$\text{Total girls in art stream of school A \& B together} = 480 \times \frac{3}{8} + 440 \times \frac{4}{11}$$

$$= 180 + 160 = 340$$

$$\text{Required difference} = 580 - 340 = 240$$

S75. Ans.(d)

Sol. Let the investment of Q = 100x

Investment of P = 160x

Investment of R = 120x

Ratio of profit:

P	Q	R
$160x \times 2$	$100x \times 4$	$120x \times 3$
8	: 10	: 9

ATQ,

$$19 \text{ unit} = \text{Rs. } 8550$$

$$8 \text{ unit} = 450 \times 8 = \text{Rs. } 3600$$

S76. Ans.(b)

Sol. Let the selling price be 250x

then, profit = 150x

$$\text{CP} = 250x - 150x = 100x$$

$$\text{Now, new C.P.} = 100x \times \frac{175}{100} = 175x$$

$$\text{New S.P.} = 250x$$

$$\text{New profit} = 250x - 175x = 75x$$

$$\text{Required \%} = \frac{150x - 75x}{250x} \times 100 = 30\%$$



S77. Ans.(c)**Sol.** Circumference of any circle = $2\pi \times \text{radius}$

$$\text{Radius of 1st circle} = \sqrt{\frac{1386}{\pi}} = 21 \text{ cm}$$

$$\text{Radius of 2nd circle} = \frac{176}{2\pi} = 28 \text{ cm}$$

$$\text{Side of square} = \frac{5}{14} \times 2 \times (21 + 28) = 35 \text{ cm}$$

$$\text{Perimeter of square} = 4 \times 35 = 140 \text{ cm}$$

S78. Ans.(b)**Sol.** Ways to select 4 balls out of 16 balls = $16C_4$

$$\text{Ways to select one red balls} = 5C_1$$

$$\text{Ways to select two black balls} = 6C_2$$

$$\text{Ways to select one blue balls} = 5C_1$$

 \therefore Required probability

$$= \frac{5C_1 \times 6C_2 \times 5C_1}{16C_4} = \frac{75}{364}$$

S79. Ans.(b)**Sol.** Let the cost price be Rs $3x$ Then the marked price = Rs $5x$ And let the discount given be Rs $4y$ Then loss incurred = Rs y

ATQ

$$3x - y = 5x - 4y$$

$$3y = 2x$$

$$\text{Marked price} = \text{Rs } \frac{15}{2}y$$

$$\text{Required discount \%} = \frac{4y}{\frac{15}{2}y} \times 100 = 53\frac{1}{3}\%$$

S80. Ans.(e)

$$\text{Sol. Speed of 1st train} = 72 \times \frac{5}{18} = 20 \text{ m/s}$$

$$\therefore \text{Distance travelled by 1st train} = 20 \times 18 = 360 \text{ m}$$

$$\therefore \text{length of train (1st)} = 360 - 160 = 200 \text{ m}$$

$$\text{Speed of 2nd train} = 90 \times \frac{5}{18} = 25 \text{ m/s}$$

$$\therefore \text{Distance travelled} = 25 \times 15 = 375 \text{ m}$$

$$\therefore \text{length of 2nd train} = 375 - 160 = 215 \text{ m}$$



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