



# KD Campus Pvt. Ltd

2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

## SSC TIER II (MATHS) MOCK TEST - 36 (SOLUTION)

1. (C)  $\frac{6}{7} = .85, \frac{7}{8} = .87$   
 $\frac{4}{5} = .8$  and  $\frac{9}{11} = .81$   
 $\therefore \frac{4}{5}$  is the smallest fraction.
2. (A) Required remainder will be the remainder when 113 is divided by 37.  
 Now,  
 $113 = 37 \times 3 + 2$   
 $\therefore$  Required remainder = 2
3. (C) Let the three numbers be  $x, x + 10$  and  $x + 20$   
 A.T.Q,  
 $x + x + 10 + x + 20 = 225$   
 $\Rightarrow 3x + 30 = 225$   
 $\Rightarrow 3x = 195 \Rightarrow x = 65$   
 $\therefore$  Largest number  
 $= x + 20 = 65 + 20 = 85$
4. (B) Let the total number of friends be  $x$ .  
 Then,  
 $\frac{180}{x-3} - \frac{180}{x} = 5$   
 $\Rightarrow \frac{1}{x-3} - \frac{1}{x} = \frac{1}{36}$   
 On solving, we get  $x = 12$   
 Then, numbers of friends who attended the picnic =  $x - 3 = 12 - 3 = 9$
5. (C) Let the two numbers be  $x$  and  $y$ .  
 Then,  
 $x \times y = 12150$  ..... (i)  
 and,  $\frac{x}{y} = \frac{3}{2}$  ..... (ii)  
 Put  $x = 3a$  and  $y = 2a$  in equation (i)  
 $\Rightarrow 3a \times 2a = 12150$   
 $\Rightarrow a^2 = 2025$   
 $\Rightarrow a = 45$   
 Now, Difference between two numbers  
 $= x - y = 3a - 2a = a = 45$
6. (B) Let the numbers be  $x$  and  $y$ .  
 A.T.Q,  
 $x^2 - y^2 = 36$   
 $\Rightarrow (x + y)(x - y) = 36$   
 Here,  $36 = 1 \times 36, 2 \times 18, 3 \times 12, 4 \times 9$   
 and  $6 \times 6$   
 Only pair (2, 18) gives the natural values of  $x$  and  $y$ .  
 $\therefore$  Number of possible pairs = 1
7. (D) A.T.Q,  
 $57 \times 63 + 171 \times 27 + 114 \times 28$   
 $= 57 [63 + 3 \times 27 + 2 \times 28]$   
 $= 57 [63 + 81 + 56]$   
 $= 57 \times 200 = 11400$
8. (C) A.T.Q,  
 $3^x - 3^{x-1} = 1458$   
 $\Rightarrow 3^x - \frac{3^x}{3} = 1458$   
 $\Rightarrow 3^x \left(1 - \frac{1}{3}\right) = 1458$   
 $\Rightarrow 3^x \times \frac{2}{3} = 1458$   
 $\Rightarrow 3^x = 2187$   
 $\Rightarrow 3^x = 3^7$   
 $\Rightarrow x = 7$
9. (B) A.T.Q,  
 $A + B \rightarrow 3$   
 $C \rightarrow 12$  )  $12 \begin{pmatrix} 4 \\ 1 \end{pmatrix}$   
 Now,  
 Capacity of A = Capacity of B and C  
 On comparing, we get  
 Capacity of A = 2.5  
 and, capacity of B = 1.5  
 Then, time taken by B to do the work alone =  $\frac{12}{1.5} = 8$  hours
10. (C) A.T.Q,  
 $A \rightarrow 15$   
 $B \rightarrow 20$   
 $C \rightarrow -30$  )  $60 \begin{pmatrix} 4 \\ 3 \\ -2 \end{pmatrix}$   
 Work done by A, B and C in 3 hours  
 $= 4 + 3 - 2 = 5$  units  
 Now, time taken to fill unit water 55  
 $= 3 \times 11 = 33$  hours  
 Next 4 units will be filled by A in one hour  
 and remaining 1 unit will be filled by B in  $\frac{1}{3}$  hours.  
 $\therefore$  Total time taken  
 $= 33 + 1 + \frac{1}{3} = 34\frac{1}{3}$  hours
11. (B) A.T.Q,  
 $A \rightarrow 10$   
 $B \rightarrow 15$   
 $C \rightarrow 20$  )  $60 \begin{pmatrix} 6 \\ 4 \\ 3 \end{pmatrix}$

**KD Campus**  
**KD Campus Pvt. Ltd**

**2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009**

Work done by A and C in 2 days  
 =  $(6 + 3) \times 2 = 18$  units  
 Now, total work =  $60 + 18 = 78$  units  
 Then, total time taken to finish the work  
 =  $\frac{78}{6 + 4 + 3} = 6$  days.

12. (C) Let the total profit be  $2x$ .  
 Now the amount which B gets  
 as allowance =  $12 \times 150 = ₹1800$   
 Now,  
 The profit shared between A and B  
 =  $\frac{2x - 1800}{2} = x - 900$   
 Now, the amount which B pays to A  
 =  $50,000 \times \frac{10}{100} = ₹5000$

A.T.Q,  

$$\frac{x - 900 + 5000}{x - 900 - 5000 + 1800} = \frac{3}{2}$$
  

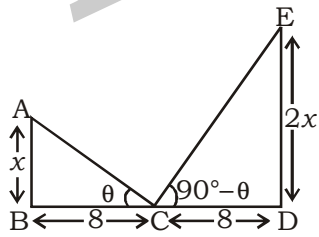
$$\Rightarrow \frac{x + 4100}{x - 4100} = \frac{3}{2}$$
  

$$\Rightarrow 2x + 2 \times 4100 = 3x - 3 \times 4100$$
  

$$\Rightarrow x = 5 \times 4100$$
  

$$\Rightarrow x = 20500$$
  
 Then,  
 Total profit  
 =  $2x = 2 \times 20500 = ₹41000$

13. (B) Let the height of the shorter building be  $x$  m.



Now, In  $\triangle ABC$ ,  

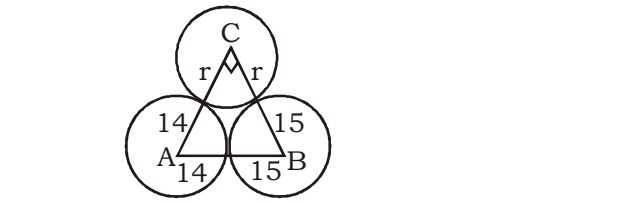
$$\tan \theta = \frac{x}{8} \dots\dots\dots (i)$$
  
 and,  
 In  $\triangle CDE$   

$$\tan(90 - \theta) = \frac{2x}{8}$$
  

$$\Rightarrow \cot \theta = \frac{2x}{8} \dots\dots (ii)$$
  
 Multiply equation (i) and equation (ii)  

$$\tan \theta \times \cot \theta = \frac{x}{8} \times \frac{2x}{8}$$

$$\Rightarrow \frac{x^2}{32} = 1 \Rightarrow x = 4\sqrt{2} \text{ m}$$
  
 $\therefore$  Height of the shorter building =  $4\sqrt{2} \text{ m}$



Then,  
 In  $\triangle ABC$   
 $(14 + r)^2 + (15 + r)^2 = 29^2$   
 $\Rightarrow 196 + r^2 + 28r + 225 + r^2 + 30r = 841$   
 $\Rightarrow 2r^2 + 58r = 420$   
 $\Rightarrow r^2 + 29r - 210 = 0$   
 On solving, we get  
 $r = 6$   
 $\therefore$  Radius of the third circle =  $6 \text{ cm}$

15. (C) A.T.Q,  

	A	B	C
Old Ratio	2	3	5
New Ratio	4	5	7

$$\left. \begin{matrix} \\ \\ \end{matrix} \right) 2$$
  
 Now, 2 units = 15  
 Then, total number of students before  
 the increment of students  
 =  $(2 + 3 + 5)$  units  
 = 10 units =  $10 \times \frac{15}{2} = 75$

16. (C) Let the original speed of the cyclist be  $x$  km/hr  
 Then,  

$$\frac{18}{x - 4} - \frac{18}{x} = \frac{45}{60}$$
  

$$\Rightarrow \frac{1}{x - 4} - \frac{1}{x} = \frac{1}{24}$$
  

$$\Rightarrow x(x - 4) = 96$$
  
 On solving, we get  
 $x = 12 \text{ km/hr.}$

17. (B) A.T.Q,  
 Speed of train is 20% more than that of car.  
 Now,  
 Let speed of train be  $6x$  and that of car  
 be  $5x$ .  
 Then,  

$$\frac{240}{5x} - \frac{240}{6x} = \frac{40}{60}$$
  
 On solving, we get  
 $x = 12$   
 Then,  
 Speed of train =  $6x = 6 \times 12 = 72 \text{ km/h}$

**KD**  
**Campus**  
**KD Campus Pvt. Ltd**

**2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009**

18. (A) A.T.Q,

Cost	Quantity	
10	4	×45
10	5	×36
20	9	×40

Now, cost price of 360 apples  
=  $45 \times 10 + 36 \times 10 = ₹810$   
and, selling price of 360 apples  
=  $20 \times 40 = ₹800$

Then, loss percentage

$$= \frac{810 - 800}{810} \times 100 = 1\frac{19}{81}\%$$

19. (C) A.T.Q,

A	B	A + B + C	
3	-	8	×9
-	2	9	×8

Now,

New Ratio becomes

$$A : B : A + B + C = 27 : 16 : 72$$

Here,

$$72 \text{ units} = ₹75600$$

$$\Rightarrow 1 \text{ unit} = ₹1050$$

$$\text{Then, share of C} = 72 - (27 + 16)$$

$$= 29 \text{ units} = 29 \times 1050 = ₹30450$$

20. (A) A.T.Q,

$$6\frac{2}{3}\% \text{ loss} = \frac{1}{15}$$

Now,

CP	SP	Articles	
15	14	14×5	×3
-	1	3	×14×5

Here,

$$CP = 15 \times 3 = ₹45$$

$$\text{and, New SP} = 14 \times 5 \times 1 = ₹70$$

Then, profit percentage

$$= \frac{70 - 45}{45} \times 100 = 55\frac{5}{9}\%$$

21. (D) A.T.Q,

Number of pages typed by A in one hour

$$= \frac{48}{3} = 16$$

and,

Number of pages typed by B in one hour

$$= \frac{30}{1.5} = 20$$

$$\text{Now, Required time} = \frac{120}{16} + \frac{120}{16 + 20}$$

$$= \frac{15}{2} + \frac{10}{3} = 10\frac{5}{6} \text{ hours}$$

22. (C) A.T.Q,

CP	SP	Profit/loss	
20	23	+3	×17
20	17	-3	×23

$$\text{Now, } (23 \times 17) \text{ units} = ₹782$$

$$\Rightarrow 1 \text{ unit} = ₹2$$

$$\text{The, total loss} = 23 \times 3 - 17 \times 3$$

$$= 18 \text{ units} = 18 \times 2 = ₹36$$

23. (C) A.T.Q,

$$(V + P) \times 24 = (V + P) \times 8 + 32V$$

$$\Rightarrow 16(V + P) = 32V$$

$$\Rightarrow V = P$$

Let time taken by Vipin to complete the work be  $x$  days

Then,

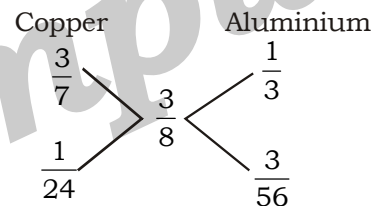
$$\Rightarrow (V + P) \times 24 = V \times x$$

$$\Rightarrow (1 + 1) \times 24 = 1 \times x$$

$$\Rightarrow x = 48 \text{ days}$$

$\therefore$  Time taken by Vipin to complete the work = 48 days

24. (C) A.T.Q,



Then,

$$\text{Required Ratio} = \frac{1}{24} : \frac{3}{56} = 7 : 9$$

25. (D) A.T.Q,

Ratio of three numbers is  $6 : 3 : 1$ .

Let the numbers be  $6x, 3x$  and  $x$  respectively.

Now,

$$6x + 3x + x = 3 \times 30$$

$$\Rightarrow x = 9$$

Then,

Difference between second and third number =  $3x - x = 2x = 2 \times 9 = 18$

26. (B) Required time interval =  $\frac{80 - 60}{80} \times 60$

$$= 15 \text{ minutes}$$

27. (C) A.T.Q,

SP of both the articles = ₹5700

Then, CP of both articles

$$= 5700 \times \frac{100}{120} = ₹4750$$

$$\text{Now, CP of chair} = \frac{7}{12} \times \text{CP of table}$$

$$\Rightarrow 19 \text{ units} = ₹4750$$

$$\Rightarrow 1 \text{ unit} = ₹250$$

Then, CP of chair = 7 units

$$= 7 \times 250 = ₹1750$$

**KD**  
**Campus**  
**KD Campus Pvt. Ltd**

**2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009**

28. (A) A.T.Q,  
Effective compound interest rate after  
paying tax =  $10\% - \left(10 \times \frac{20}{100}\right)\% = 8\%$   
Now,  
Required amount =  $P \left[1 + \frac{r}{100}\right]^n$   
 $= 15625 \left[1 + \frac{8}{100}\right]^3 = ₹19683$

29. (C) Required rate of interest  
 $= \frac{27225 - 24750}{24750} \times 100$   
 $= \frac{2475}{24750} \times 100 = 10\%$

30. (C) A.T.Q,  

	Ethanol	Water
I	3	4
II	1	2
III	6	5

 Let quantity taken from third bottle be  $11x$ .  
Then,  
 $3 \times 2 + 1 \times 2 + 6x$   
 $= 4 \times 2 + 2 \times 2 + 5x$   
 $\Rightarrow 6x + 8 = 5x + 12$   
 $\Rightarrow x = 4$   
 $\therefore$  Required quantity =  $11x$   
 $= 11 \times 4 = 44$  litres

31. (B) Let CP of the two articles be  $x$  and  $y$  respectively.  
A.T.Q,  
 $\left(\frac{11x}{10} + \frac{13y}{10}\right) - \left(\frac{13x}{10} + \frac{11y}{10}\right) = 10$   
 $\Rightarrow \frac{2y}{10} - \frac{2x}{10} = 10$   
 $\Rightarrow y - x = 50$   
 $\therefore$  Difference between the CP of the articles = ₹50

32. (A) A.T.Q,  

	tin	lead	zinc	copper	
I	3	2	1		$\times 3$
II		2	3	4	$\times 2$

 New Ratio becomes  

tin	lead	zinc	copper
9	6	3	
	4	6	8
9	10	9	8

 Then, weight of zinc per kg = 9 gm.  
 $= \frac{9}{9+10+9+8} \times 1000 = 250$  gm

33. (C) A.T.Q,  
Total CP of the mobile  
 $= 7200 \times \frac{85}{100} \times \frac{90}{100} + 392$   
 $= ₹5900$   
and, SP of the mobile = ₹6000  
Then, Profit earned by Rohan  
 $= 6000 - 5900 = ₹100$

34. (B) A.T.Q,  

15.4		6.6
	15	
8.4		0.4
↓		↓
21	:	1

Now, 1 unit = 5 wickets  
Then,  
Total number of wickets before his last match = 21 units  
 $= 21 \times 5 = 105$

35. (C) A.T.Q,  
Total number of digits  
 $= 1 \times 9 + 2 \times 90 + 3 \times 351$   
 $= 1242$

36. (B) A.T.Q,  
Principal =  $\frac{9.15 \times 100 \times 100 \times 100}{5 \times 5 \times (300 + 5)}$   
 $\Rightarrow$  Principal = ₹1200

37. (D) A.T.Q,  

A → 14		15
B → 21	210	10
C → -35		-6

Now,  
Work done by A and B and B and C in 2 days =  $(15 + 10) + (15 - 6)$   
 $= 34$  units

Then,  
Work done in 12 days =  $34 \times 6 = 204$  units  
and, time taken to complete remaining 6 units work

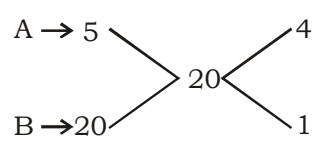
$= \frac{6}{25}$  days  
 $\therefore$  Total time taken  
 $= 12 + \frac{6}{25} = 12 \frac{6}{25}$  days



# KD Campus Pvt. Ltd

2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

38. (D) A.T.Q,



Time taken by A and B to fill the cistern

$$= \frac{20}{4+1} = 4 \text{ hours}$$

and, total time taken to fill the cistern = 4 + 1 = 5 hours

Now, quantity of water leaked through pipe C = 5 × 5 - 20 = 5 units

Then, time taken by C to empty the cistern =  $\frac{5}{5} \times 20 = 20$  hours

39. (C) A.T.Q,

$$2^{x-1} + 2^{x+1} = 640$$

$$\Rightarrow 2^{x-1}[1+2^2] = 640$$

$$\Rightarrow 2^{x-1} = 128 = 2^7$$

On comparing, we get

$$x - 1 = 7$$

$$\Rightarrow x = 8$$

40. (A) A.T.Q,

	upstream	downstream
Time	3	1
Speed	1	3

Then,

$$\text{Speed of man in still water} = \frac{1+3}{2} = 2 \text{ units}$$

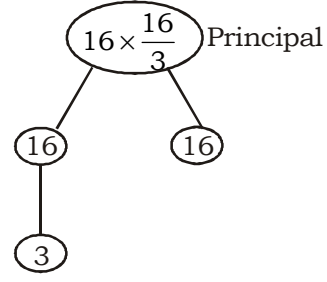
$$\text{and, speed of current} = \frac{3-1}{2} = 1 \text{ unit}$$

$$\text{Now, speed of man (2 units)} = \frac{23}{3} \text{ kmph}$$

Then, speed of current (1 unit)

$$= \frac{23}{3} \times \frac{1}{2} = \frac{23}{6} = 3\frac{5}{6} \text{ kmph}$$

41. (B) A.T.Q,



Here,

$$\text{Compound interest for 2 years} = 16 + 16 + 3 = 35 \text{ units}$$

$$\text{and, simple interest} = 16 + 16 = 32 \text{ units}$$

Now,

$$35 \text{ units} = ₹595$$

$$\text{Then, } 32 \text{ units} = \frac{595}{35} \times 32 = ₹544$$

$$\therefore \text{ Simple interest for 2 years} = ₹544$$

42. (C) Let capacity of Vivek and Vipul of doing the work be A and B respectively.

Then,

$$\frac{A \times 20}{60} = \frac{(A+B) \times 10}{40}$$

$$\Rightarrow 4A = 3A + 3B$$

$$\Rightarrow A = 3B$$

$$\Rightarrow \frac{A}{B} = \frac{3}{1}$$

Now,

Let time taken by Vipul to complete the work be x days.

Now,

$$B \times x = \frac{A \times 20}{60}$$

$$\Rightarrow 1 \times x = \frac{3 \times 20 \times 100}{60}$$

$$\Rightarrow x = 100 \text{ days}$$

$\therefore$  Time taken by Vipul to complete the work = 100 days.

43. (C) Let the three digit number be x.

Then,

$$625 = x \times P + R \dots\dots\dots (i)$$

$$\text{and, } 2406 = x \times Q + R \dots\dots\dots (ii)$$

From equation (i) and (ii), we get

$$x(Q - P) = 2406 - 625$$

$$\Rightarrow x(Q - P) = 1781$$

$$\Rightarrow x(Q - P) = 13 \times 137$$

$$\text{Here, } x = 137$$

$$\therefore \text{ Sum of the digits of the number} = 1 + 3 + 7 = 11$$

44. (B) A.T.Q,

$$\begin{array}{l} A + B \rightarrow 2 \\ C \rightarrow 1 \end{array} \times 4 \Rightarrow \begin{array}{l} 8 \\ 4 \end{array} \Big) 12$$

and,

$$\begin{array}{l} A + C \rightarrow 3 \\ B \rightarrow 1 \end{array} \times 3 \Rightarrow \begin{array}{l} 9 \\ 3 \end{array} \Big) 12$$

Now,

Capacity of A, B and C becomes 5 units, 3 units and 4 units respectively.

Then,

Time taken by A to complete the work

$$= \frac{12 \times 12}{5} = 28\frac{4}{5} \text{ days}$$

KD  
**Campus**  
**KD Campus Pvt. Ltd**

**2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009**

45. (B) A.T.Q,

$$\begin{aligned} & (\sqrt{3} + \sqrt{2})^{-3} + (\sqrt{3} - \sqrt{2})^{-3} \\ &= \frac{1}{(\sqrt{3} + \sqrt{2})^3} + \frac{1}{(\sqrt{3} - \sqrt{2})^3} \\ &= (\sqrt{3} - \sqrt{2})^3 + (\sqrt{3} + \sqrt{2})^3 \\ &= 2 \left[ (\sqrt{3})^3 + 3 \times \sqrt{3} \times (\sqrt{2})^2 \right] \\ &= 2 \left[ 3\sqrt{3} + 6\sqrt{3} \right] = 18\sqrt{3} \end{aligned}$$

46. (A) A.T.Q,

Ratio of share of A, B and C

$$\begin{aligned} &= \frac{1}{3} \times 60 : \frac{1}{4} \times 60 : \frac{1}{5} \times 60 \\ &= 20 : 15 : 12 \end{aligned}$$

Now,

$$(20 + 15 + 12) \text{ units} = ₹1410$$

$$\Rightarrow 47 \text{ units} = 1410$$

$$\text{Then, Share of B} = \frac{1410}{47} \times 15 = ₹450$$

47. (B) A.T.Q,

	Red	Yellow	
Total	5	4	×10
Upper half	3	2	×9

New Ratio becomes

	Red	Yellow
Total	50	40
Upper half	27	18
lower half	23	22

Then,

$$\text{Required ratio} = 23 : 22$$

48. (A) Required percentage =  $\frac{1.55 - 1.5}{1.5} \times 100$

$$= \frac{0.05}{1.5} \times 100 = 3\frac{1}{3}\%$$

49. (D) A.T.Q,

$$\text{Total CP of watch} = 800 + 800 \times \frac{15}{100} = ₹920$$

and,

$$\text{SP of the watch} = 920 \times \frac{125}{100} = ₹1150$$

Now,

$$\text{Discount} = 16\frac{2}{3}\% = \frac{1}{6}$$

Then,

$$\text{MP of the watch} = ₹1150 \times \frac{6}{5} = ₹1380$$

50. (C) Let the number be 300.

After increment of  $33\frac{1}{3}\%$ ,

$$\text{number} = 300 + 300 \times 33\frac{1}{3}\% = 400$$

Now,

Required decrement

$$= \frac{400 - 300}{400} \times 100 = 25\%$$

51. (C) A.T.Q,

$$\text{Total length of the rope} = 105 \times 2\pi$$

$$= 105 \times 14 \times 2\pi$$

It has to be circled around another cylinder.

Let number of rounds be  $n$ .

Then,

$$n \times 2\pi \times 49 = 105 \times 14 \times 2\pi$$

On solving, we get

$$n = 30$$

$$\therefore \text{Number of rounds} = 30$$

52. (B) Let the number of spherical bullets be  $n$ .

Now,

Total volume of spherical balls must be equal to volume of rectangular block.

$$\text{Then, } n \times \frac{4}{3} \times \frac{22}{7} \times (7)^3$$

$$= 110\text{cm} \times 50\text{cm} \times 98\text{cm}$$

On solving, we get

$$n = 375$$

$$\therefore \text{Number of spherical balls} = 375$$

53. (A) We Know that,

$$\text{Volume of frustum} = \frac{\pi h}{3} (R^2 + r^2 + Rr)$$

$$= \frac{22}{7} \times \frac{14}{3} [15^2 + 12^2 + 15 \times 12] = 8052 \text{ cm}^3$$

54. (D) A.T.Q,

$$\frac{\text{C.S.A}}{\text{T.S.A}} = \frac{2}{3}$$

$$\Rightarrow \frac{2\pi rh}{2\pi r(h+r)} = \frac{2}{3}$$

$$\Rightarrow \frac{h}{h+r} = \frac{2}{3}$$

$$\Rightarrow h \Rightarrow 2r$$

Now,

$$\text{T.S.A of the cylinder} = 231$$

$$\Rightarrow 2\pi r \times 3r = 231$$

On solving, we get

$$r = \frac{7}{2} \text{ cm}$$

and,  $h = 2r = 7 \text{ cm}$

Then, volume of the cylinder =  $\pi r^2 h$

$$= \frac{22}{7} \times \frac{7}{2} \times \frac{7}{2} \times 7 = 269.5 \text{ cm}^3$$

55. (B) A.T.Q,

Distance travelled in  $33\frac{3}{5}$  minutes at the speed of 5 km/h

$$= \frac{168}{5} \times \frac{5000}{60} = 2800 \text{ m}$$

Let length and breadth of the rectangle be  $4x$  and  $3x$ .

Then,

$$2(4x + 3x) = 2800$$

$$\Rightarrow x = 200$$

Now,

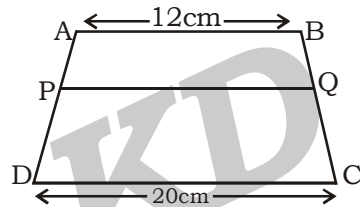
length of the field =  $4 \times 200 = 800 \text{ m}$

and, breadth of the field =  $3 \times 200 = 600 \text{ m}$

Then, area of the field =  $800 \times 600$

$$= 480000 \text{ m}^2 = 48 \text{ hectare}$$

56. (C) A.T.Q,



$$AP : PD = 1 : 3$$

$$\text{Then, length of PQ} = \frac{AP \times DC + PD \times AB}{AP + PD}$$

$$= \frac{1 \times 20 + 3 \times 12}{1 + 3} = 14 \text{ cm}$$

57. (A) We know that,

Area of the minor sector

$$= \frac{1}{2} \times \text{length of arc} \times \text{radius} = \frac{1}{2} \times 28 \times 7 = 98 \text{ cm}^2$$

58. (B) When a sphere is cut into eight equal parts, then surface area of one part

$$= \frac{1}{8} \times (\text{surface area of sphere}) + 2 \times (\text{area of semicircle})$$

$$= \frac{1}{8} \times 4\pi r^2 + 2 \times \frac{\pi r^2}{2} = \frac{3\pi r^2}{2}$$

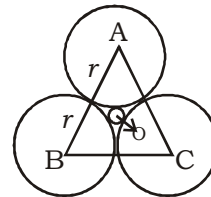
Then,

Ratio of surface area of one part to that of whole sphere

$$= \frac{3\pi r^2}{4\pi r^2} = \frac{3}{4}$$

$\therefore$  Required ratio = 3 : 4

59. (A) Here,



ABC is an equilateral triangle of sides  $2r$  units each.

and, centre of the circle is the centroid of  $\Delta ABC$ .

Then,

$$AO = \left( \frac{\sqrt{3}}{2} \times 2r \right) \times \frac{2}{3} = \frac{2\sqrt{3}}{3} r \text{ units}$$

Now, radius of the smaller circle

$$= \frac{2\sqrt{3}}{3} r - r = r \left( \frac{2\sqrt{3}}{3} - 1 \right) \text{ units}$$

60. (C) A.T.Q,

Volume of the cube =  $512 \text{ m}^3$

Then,

each side of the cube =  $\sqrt[3]{512} = 8 \text{ m}$

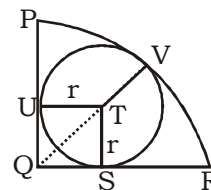
Now,

Total surface area of the cuboid

$$= 2[lb + bh + hl]$$

$$= 2[24 \times 8 + 8 \times 8 + 8 \times 24] = 896 \text{ m}^2$$

61. (A) Let the radius of the circle be  $r$ .



Then, QSTU is a square of side  $r$  units

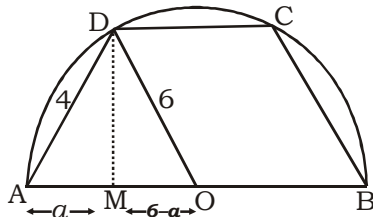
Now,  $QV = QT + TV$

$$2 = \sqrt{2} r + r$$

$$\Rightarrow r = \frac{2}{\sqrt{2} + 1} = 2(\sqrt{2} - 1) \text{ units}$$

$\therefore$  Radius of the circle =  $2(\sqrt{2} - 1) \text{ units}$

62. (B) Let AM be a metre.



Then,  $OM = (6 - a)$  m  
 Now, using pythagoras  
 $6^2 - (6 - a)^2 = 4^2 - a^2$   
 $\Rightarrow 36 - 36 - a^2 + 12a = 16 - a^2$   
 $\Rightarrow a = \frac{4}{3}$  m

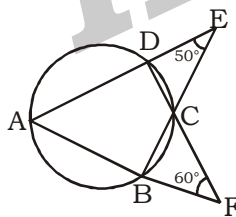
Then,  
 length of  $CD = AB - 2a$   
 $= 12 - 2 \times \frac{4}{3} = \frac{28}{3} = 9\frac{1}{3}$  m

63. (B) Let length, breadth and height of the cuboid be  $4x$ ,  $2x$  and  $x$  respectively.

Then, volume of the cuboid  
 $= 4x \times 2x \times x = 8x^3$   
 After changes, the dimensions of the cuboid becomes  $2x$ ,  $4x$  and  $\frac{x}{2}$  respectively.

Then,  
 Volume of the cuboid  $= 2x \times 4x \times \frac{x}{2} = 4x^3$   
 $\therefore$  Required percentage change  
 $= \frac{8x^3 - 4x^3}{8x^3} \times 100\% = 50\%$

64. (A) A.T.Q,



Required angle  $= \frac{180^\circ - (\angle E + \angle F)}{2}$   
 $= \frac{180^\circ - (50^\circ + 60^\circ)}{2} = 35^\circ$

65. (D) A.T.Q,

$x^2 - \sqrt{3}x - 1 = 0$   
 $\Rightarrow x - \frac{1}{x} = \sqrt{3}$  ..... (i)

We know that,

$$\left(x + \frac{1}{x}\right)^2 - \left(x - \frac{1}{x}\right)^2 = 4$$

Then,

$$x + \frac{1}{x} = \sqrt{7} \text{ ..... (i)}$$

Multiply equation (i) and (ii), we get

$$x^2 - \frac{1}{x^2} = \sqrt{21}$$

Taking cube both sides, we get

$$x^6 - \frac{1}{x^6} - 3\left(x^2 - \frac{1}{x^2}\right) = 21\sqrt{21}$$

$$\Rightarrow x^6 - \frac{1}{x^6} = 24\sqrt{21}$$

66. (C) Given expression is the square of  $x^2 + 2x + 5$

Now,  
 $(x^2 + 2x + 5)^2 = x^4 + 4x^2 + 25 + 4x^3 + 20x + 10x^2$   
 $= x^4 + 4x^3 + 14x^2 + 20x + 25$   
 On comparing, we get  
 $a = 14$  and  $b = 20$   
 Then,  $a + b = 14 + 20 = 34$

67. (A) A.T.Q,

$$\frac{\sin \theta + \cos \theta}{\sin \theta - \cos \theta} = 5$$

Applying Componendo and Dividendo method,

$$\frac{\sin \theta}{\cos \theta} = \frac{5+1}{5-1}$$

$$\Rightarrow \tan \theta = \frac{3}{2}$$

Now,

$$\begin{aligned} \sin^4 \theta - \cos^4 \theta &= (\sin^2 \theta + \cos^2 \theta)(\sin^2 \theta - \cos^2 \theta) = -\cos 2\theta \\ &= \frac{\tan^2 \theta - 1}{\tan^2 \theta + 1} = \frac{5}{13} \end{aligned}$$

68. (B) A.T.Q,

$$\begin{aligned} 2\tan^2 A + \tan^4 A &= 1 \\ \Rightarrow \tan^2 A (2 + \tan^2 A) &= 1 \\ \Rightarrow (\sec^2 A - 1)(\sec^2 A + 1) &= 1 \\ \Rightarrow \sec^4 A - 1 &= 1 \\ \Rightarrow \sec^4 A &= 2 \end{aligned}$$

69. (A) A.T.Q,

$$\sec \theta + \tan \theta = P \text{ ..... (i)}$$

$$\text{Then, } \sec \theta - \tan \theta = \frac{1}{P} \text{ ..... (ii)}$$

Solving equation (i) and (ii), we get

$$2\sec \theta = P + \frac{1}{P}$$



and,  $2 \tan \theta = P - \frac{1}{P}$

Now,

$$\sin \theta = \frac{2 \tan \theta}{2 \sec \theta} = \frac{P^2 - 1}{P^2 + 1}$$

and,  $\cos \theta = \frac{1}{\sec \theta} = \frac{2P}{P^2 + 1}$

Then,  $\sin \theta + \cos \theta = \frac{P^2 - 1 + 2P}{P^2 + 1}$

70. (B) A.T.Q,

$$3 \sin^2 \theta \cdot \operatorname{cosec} \theta - 10 + 3 \operatorname{cosec} \theta = 0$$

$$\Rightarrow 3 \sin \theta - 10 + \frac{3}{\sin \theta} = 0$$

$$\Rightarrow 3 \sin^2 \theta - 10 \sin \theta + 3 = 0$$

$$\Rightarrow 3 \sin^2 \theta - 9 \sin \theta - \sin \theta + 3 = 0$$

$$\Rightarrow 3 \sin \theta (\sin \theta - 3) - 1(\sin \theta - 3) = 0$$

$$\Rightarrow \sin \theta = 3 \text{ or } \sin \theta = \frac{1}{3}$$

As  $\sin \theta = 3$  is not possible, so  $\sin \theta = \frac{1}{3}$

$$\Rightarrow \operatorname{cosec} \theta = 3$$

Now,  $\cot \theta = \sqrt{\operatorname{cosec}^2 \theta - 1} = 2\sqrt{2}$

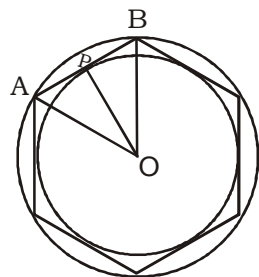
71. (B) A.T.Q,

$$\sqrt{\frac{x-y}{x+y}} + \sqrt{\frac{x+y}{x-y}} = \frac{x-y+x+y}{\sqrt{x^2-y^2}}$$

$$= \frac{2x}{\sqrt{x^2-y^2}} = \frac{2}{\sqrt{1-\left(\frac{y}{x}\right)^2}} = \frac{2}{\sqrt{1-\cos^2 \theta}}$$

$$= 2 \operatorname{cosec} \theta$$

72. (B) A.T.Q,



OA is the radius of circumscribed circle and OP is the radius of inscribed circle.

Then,

$$OA = 12 \text{ cm}$$

and,  $OP = 12 \times \frac{\sqrt{3}}{2} = 6\sqrt{3} \text{ cm}$

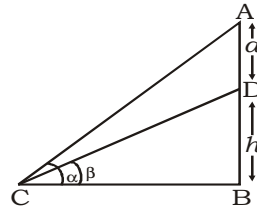
Now,

Required difference of areas

$$= \pi (OA^2 - OP^2) = \pi (12^2 - (6\sqrt{3})^2)$$

$$= 36 \pi \text{ cm}^2$$

73. (B) Let the height of the cliff be  $h$  m.



Now,

In  $\triangle ABC$ ,

$$BC = (a + h) \cot \alpha \dots\dots\dots (i)$$

and,

In  $\triangle DBC$

$$BC = h \cot \beta \dots\dots\dots (ii)$$

From equation (i) and (ii), we get

$$(a + h) \cot \alpha = h \cot \beta$$

$$\Rightarrow h = \frac{a \cot \alpha}{\cot \beta - \cot \alpha}$$

$$\therefore \text{Height of the cliff} = \frac{a \cot \alpha}{\cot \beta - \cot \alpha}$$

74. (D) Let the rise in the level of water in the tank be  $h$  m.

Then,

$$\frac{22}{7} \times \left(\frac{21}{2}\right)^2 \times h = \left(\frac{60}{100 \times 100}\right) \times 11000 \times 7$$

On solving, we get

$$h = \frac{4}{3} \text{ m}$$

75. (B) A.T.Q,

Each side of the rectangle with maximum

$$\text{area} = \frac{bh}{b+h}$$

$$= \frac{15 \times 21}{15 + 21} = \frac{35}{4} \text{ cm}$$

$$\text{Then, area of the rectangle} = \left(\frac{35}{4}\right)^2$$

$$= 76.5625 \text{ sq. cm}$$

76. (D) A.T.Q,

$$x = 5 + 2\sqrt{6} \dots\dots\dots (i)$$

Then,

$$\frac{1}{x} = 5 - 2\sqrt{6} \dots\dots\dots (ii)$$

From equation (i) and (ii), we get

$$x - \frac{1}{x} = 4\sqrt{6}$$

Cubing Both sides, we get

$$x^3 - \frac{1}{x^3} - 3\left(x - \frac{1}{x}\right) = 384\sqrt{6}$$

$$\Rightarrow x^3 - \frac{1}{x^3} = 384\sqrt{6} + 12\sqrt{6} = 396\sqrt{6}$$

77. (C) A.T.Q,

$$\begin{aligned} & \frac{1}{1+a^{a-b}} + \frac{1}{1+a^{b-a}} \\ &= \frac{1}{1+\frac{a^a}{a^b}} + \frac{1}{1+\frac{a^b}{a^a}} \\ &= \frac{a^b}{a^b+a^a} + \frac{a^a}{a^a+a^b} = \frac{a^b+a^a}{a^b+a^a} = 1 \end{aligned}$$

78. (C) A.T.Q,

$$x + y = 2\sqrt{2}$$

and,

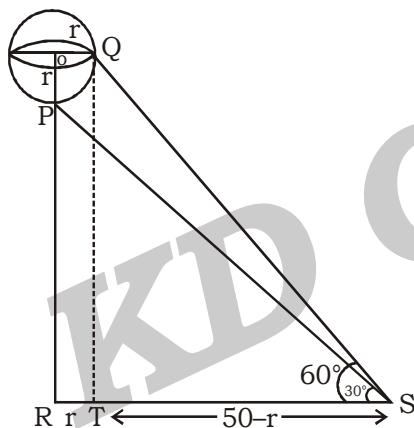
$$xy = (\sqrt{2})^2 - \left(\frac{1}{\sqrt{2}}\right)^2 = \frac{3}{2}$$

Now,

$$x^2 + y^2 + 4xy = (x + y)^2 + 2xy$$

$$= (2\sqrt{2})^2 + 2 \times \frac{3}{2} = 8 + 3 = 11$$

79. (C) A.T.Q,



In  $\Delta PRS$ ,

$$\tan 30^\circ = \frac{PR}{RS}$$

$$\Rightarrow PR = \frac{50}{\sqrt{3}} \text{ m}$$

and, In  $\Delta QTS$ ,

$$\tan 60^\circ = \frac{QT}{TS}$$

$$\Rightarrow \sqrt{3} = \frac{\frac{50}{\sqrt{3}} + r}{50 - r}$$

$$\Rightarrow \sqrt{3}(50 - r) = \frac{50 + \sqrt{3}r}{\sqrt{3}}$$

$$\Rightarrow (150 - 3r) = 50 + \sqrt{3}r$$

$$\Rightarrow r = \frac{100}{3 + \sqrt{3}} = 50 \left(1 - \frac{1}{\sqrt{3}}\right) \text{ m}$$

$$\therefore \text{Radius of the sphere} = 50 \left(1 - \frac{1}{\sqrt{3}}\right) \text{ m}$$

$$\begin{aligned} & 1 + \tan A \cdot \tan \frac{A}{2} \\ &= 1 + \frac{2 \tan \frac{A}{2}}{1 - \tan^2 \frac{A}{2}} \cdot \tan \frac{A}{2} \\ &= \frac{1 - \tan^2 \frac{A}{2} + 2 \tan^2 \frac{A}{2}}{1 - \tan^2 \frac{A}{2}} \end{aligned}$$

$$= \frac{1 + \tan^2 \frac{A}{2}}{1 - \tan^2 \frac{A}{2}} = \frac{1}{\cos A} = \sec A$$

81. (D) A.T.Q,

$$x^4 - x^2 + 1 = 0$$

$$\Rightarrow x^2 + \frac{1}{x^2} = 1$$

Cubing both sides, we get

$$x^6 + \frac{1}{x^6} + 3 \times x^2 \times \frac{1}{x^2} \left(x^2 + \frac{1}{x^2}\right) = 1$$

$$\Rightarrow x^6 + \frac{1}{x^6} = 1 - 3$$

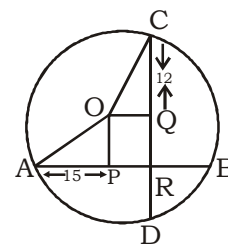
$$\Rightarrow x^6 + \frac{1}{x^6} = -2$$

Here,  $x^6 = -1$

Now,

$$\begin{aligned} & x^{24} - x^{18} + x^{12} - x^6 + 1 \\ &= (x^6)^4 - (x^6)^3 + (x^6)^2 + x^6 + 1 \\ &= 1 - (-1) + 1 - (-1) + 1 = 5 \end{aligned}$$

82. (A) A.T.Q,



OA and OC are the radius of the circle

Now,

$$OQ^2 = 17^2 - 12^2 = 145$$

and,

$$OP^2 = 17^2 - 15^2 = 64$$

Then,

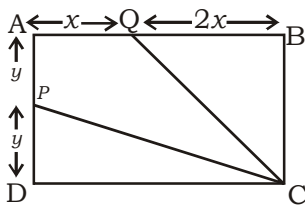
$$OR = \sqrt{OP^2 + OQ^2}$$

$$= \sqrt{145 + 64}$$

$$= \sqrt{209} \text{ cm}$$

$$\therefore \text{Required distance} = \sqrt{209} \text{ cm}$$

83. (B) Let length of side AB be  $3x$  cm and that of AD be  $2y$  cm



Then,  
Area of AQP = ar(ABCD) - [ar(QBC) + ar(PDC)]

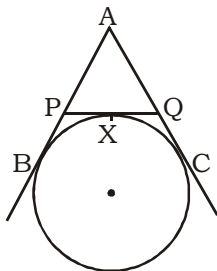
$$\Rightarrow 25 = 3x \times 2y - \left[ \frac{1}{2} \times 2x \times 2y + \frac{1}{2} \times y \times 3x \right]$$

$$\Rightarrow 25 = 6xy - \frac{7xy}{2}$$

On solving, we get  $xy = 10$

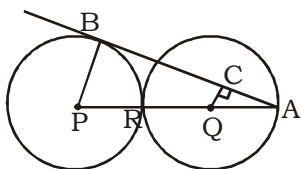
Now,  
area of ABCD =  $3x \times 2y$   
=  $6xy = 6 \times 10 = 60 \text{ cm}^2$

84. (B) A.T.Q,



PB = PX  
and QC = QX  
Now,  
Perimeter of  $\triangle APQ$   
= AP + PQ + AQ  
= AP + PX + QX + AQ  
= AP + PB + QC + AQ  
= AB + AC  
= 10 + 10 = 20 cm

85. (C) A.T.Q,



QC is perpendicular to AB.  
and,  
We know that radius of the circle makes right angle with tangent.

$\therefore PB \perp AB$

Now,  
 $\triangle ABP \sim \triangle ACQ$

Then,  
$$\frac{PB}{QC} = \frac{AP}{QA} = \frac{3r}{r} = \frac{3}{1}$$

$\therefore$  Required ratio = 3 : 1

86. (C)  $(1 + \cot A - \operatorname{cosec} A) (1 + \tan A + \sec A)$

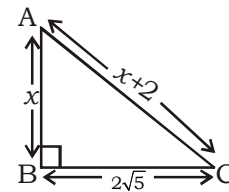
Put  $\theta = 45^\circ$

$$= (1 + \cot 45^\circ - \operatorname{cosec} 45^\circ) (1 + \tan 45^\circ + \sec 45^\circ)$$

$$= (1 + 1 - \sqrt{2}) (1 + 1 + \sqrt{2})$$

$$= (2 - \sqrt{2}) (2 + \sqrt{2}) = 2$$

87. (A) Let AB be  $x$  units



Then, length of AC =  $(x + 2)$  units

Now,

Using pythagoras

$$(x + 2)^2 - x^2 = (2\sqrt{5})^2$$

$$\Rightarrow (x + 2 + x)(x + 2 - x) = 20$$

$$\Rightarrow (2x + 2) = 10$$

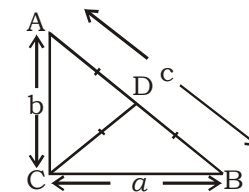
$$\Rightarrow x = 4 \text{ units}$$

Then,

$$\sec C + \tan C = \frac{AC}{BC} + \frac{AB}{BC}$$

$$= \frac{2x + 2}{2\sqrt{5}} = \frac{10}{2\sqrt{5}} = \sqrt{5} \text{ units}$$

88. (D) We know that,



Circumradius of a right angle triangle is equal to half of its hypotenuse.

Then,

$$c = 52 \times 2 = 104 \text{ cm}$$

Now,

perimeter of ABC =  $112 \times 2$

$$\Rightarrow a + b + c = 224 \text{ cm}$$

$$\Rightarrow a + b = 120 \text{ cm}$$

and,

$$(a + b)^2 = 120^2$$

$$\Rightarrow a^2 + b^2 + 2ab = 120^2$$

$$\Rightarrow 2ab = 120^2 - c^2$$

$$\Rightarrow 2ab = 120^2 - 104^2$$

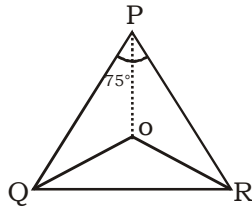
$$\Rightarrow 2ab = 16 \times 224$$

Then,

$$\text{Area of ABC} = \frac{1}{2} ab$$

$$= \frac{16 \times 224}{4} = 896 \text{ cm}^2$$

89. (D) We know that,



Angle made at the centre of the circle is always double the angle made at the circumference.

Then,  $\angle QOR = 75^\circ \times 2 = 150^\circ$

and  $\angle ORQ = \frac{180^\circ - 150^\circ}{2} = 15^\circ$

Now,  $\angle PRO = 80^\circ - 15^\circ = 65^\circ$

and,  $\angle PRO = \angle OPR$

$\therefore \angle OPR = 65^\circ$

90. (B) A.T.Q,

$4x + \frac{12}{x} = 19$

$\Rightarrow 4x^2 - 19x + 12 = 0$

$\Rightarrow 4x^2 - 16x - 3x + 12 = 0$

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

$\Rightarrow x = 4$  and  $x = \frac{3}{4}$

Now,

$x^2 + \frac{1}{x^2} = 4^2 + \frac{1}{4^2} = \frac{257}{16}$

and,  $x^2 + \frac{1}{x^2} = \left(\frac{3}{4}\right)^2 + \left(\frac{4}{3}\right)^2$

$= \frac{9}{16} + \frac{16}{9} = \frac{337}{144}$

$\therefore$  Minimum value of  $x^2 + \frac{1}{x^2} = \frac{337}{144}$

91. (B) A.T.Q,

$2[2016^2 - 2015^2 + 2014^2 - 2013^2 + \dots + 2^2 - 1^2]$

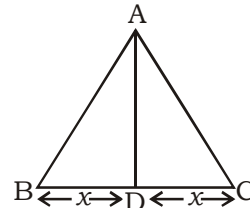
$= 2[(2016 + 2015)(2016 - 2015) + (2014 + 2013)(2014 - 2013) \dots (2 + 1)(2 - 1)]$

$= 2 \times \frac{2016 \times 2017}{2} = 2016 \times 2017$

Now,  $2016 \times 2017 = 2016^2 + 2016$

$\therefore$  The number which must be subtracted to make it a perfect square = 2016

92. (A) Let the length of side BC be  $2x$  cm.



Then,

Length of AC and AB =  $2x \times \frac{5}{8} = \frac{5x}{4}$

Perimeter of the triangle = 54 cm

$\Rightarrow 2x + \frac{5x}{4} + \frac{5x}{4} = 54$

On solving, we get

$x = 12$

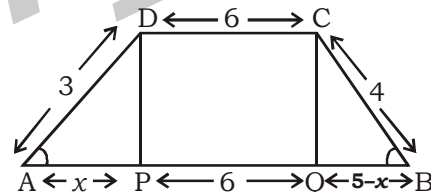
Now, length of side AC =  $\frac{5x}{4} = 15$ cm

and,  $AD = \sqrt{15^2 - 12^2} = 9$  cm

Then, Area of ABC =  $\frac{1}{2} \times BC \times AD$

$= \frac{1}{2} \times 24 \times 9 = 108$  cm<sup>2</sup>

93. (B) Let the length of AP be  $x$ .



Then,  $QB = 11 - (AP + PQ)$

$= 11 - (x + 6) = 5 - x$

Now,

$3^2 - x^2 = 4^2 - (5 - x)^2$

$\Rightarrow 9 - x^2 = 16 - 25 - x^2 + 10x$

$\Rightarrow 10x = 18$

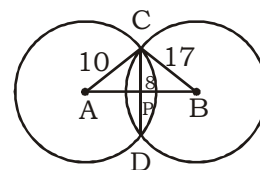
$\Rightarrow x = 1.8$

Then,

Distance between AB and CD =  $\sqrt{3^2 - x^2}$

$= \sqrt{3^2 - 1.8^2} = 2.4$  cm

94. (D) A.T.Q,



Radii of the two circles are 10 cm and 17 cm

respectively and  $CP = \frac{16}{2} = 8$  cm

Now,

**KD**  
**Campus**  
**KD Campus Pvt. Ltd**

**2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009**

- Using pythagoras, we get  
 $AP = \sqrt{10^2 - 8^2} = 6 \text{ cm}$   
 and  $PB = \sqrt{17^2 - 8^2} = 15$   
 Then, Distance between the centres (AB)  
 $= 6 + 15 = 21 \text{ cm}$
95. (C) We know that,  
 length of the traverse common tangent  
 $(l) = \sqrt{d^2 - (r_1 + r_2)^2}$   
 Now,  
 $17 = \sqrt{d^2 - (5 + 12)^2}$   
 $\Rightarrow d^2 = 17^2 + 17^2$   
 $\Rightarrow d = 17\sqrt{2}$   
 Then,  
 Distance between the centres of the  
 circles  $= 17\sqrt{2} \text{ cm}$
96. (A) Number of students studying Science  
 from institute D  
 $= 17 \times \frac{5400}{100} = 918$   
 and, Number of students studying Com-  
 merce from institute B  
 $= 16 \times \frac{4500}{100} = 720$   
 Then,  
 Required ratio  $= 918 : 720 = 51 : 40$
97. (A) Number of students studying Science  
 from institutie E  
 $= \frac{5400}{100} \times 9 = 486$   
 and, Number of students studying Com-  
 merce from institute D  
 $= \frac{4500}{100} \times 21 = 945$   
 Then,  
 Total students  $= 486 + 945 = 1431$
98. (D) Number of students studying Science  
 from institutie B  
 $= \frac{5400}{100} \times 11 = 594$   
 Then, Number of students studying  
 Commerce from institute B  
 $= \frac{4500}{100} \times 16 = 720$   
 Then,  
 Total students  $= 594 + 720 = 1314$
99. (D) Required ratio  $= \frac{5400}{100} \times 15 : \frac{4500}{100} \times 7$   
 $= 18 : 7$
100. (B) Total number of students studying  
 Commerce from institute B and D  
 $= \frac{4500}{100} \times (16 + 21) = 1665$

**SSC TIER II (MATHS) MOCK TEST - 36 (ANSWER KEY)**

1. (C)	11. (B)	21. (D)	31. (B)	41. (B)	51. (C)	61. (A)	71. (B)	81. (D)	91. (B)
2. (A)	12. (C)	22. (C)	32. (A)	42. (C)	52. (B)	62. (B)	72. (B)	82. (A)	92. (A)
3. (C)	13. (B)	23. (C)	33. (C)	43. (C)	53. (A)	63. (B)	73. (B)	83. (B)	93. (B)
4. (B)	14. (B)	24. (C)	34. (B)	44. (B)	54. (D)	64. (A)	74. (D)	84. (B)	94. (D)
5. (C)	15. (C)	25. (D)	35. (C)	45. (B)	55. (B)	65. (D)	75. (B)	85. (C)	95. (C)
6. (B)	16. (C)	26. (B)	36. (B)	46. (A)	56. (C)	66. (C)	76. (D)	86. (C)	96. (A)
7. (D)	17. (B)	27. (C)	37. (D)	47. (B)	57. (A)	67. (A)	77. (C)	87. (A)	97. (A)
8. (C)	18. (A)	28. (A)	38. (D)	48. (A)	58. (B)	68. (B)	78. (C)	88. (D)	98. (D)
9. (B)	19. (C)	29. (C)	39. (C)	49. (D)	59. (A)	69. (A)	79. (C)	89. (D)	99. (D)
10. (C)	20. (A)	30. (C)	40. (A)	50. (C)	60. (C)	70. (B)	80. (B)	90. (B)	100. (B)

**Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003**

**Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts, also share your suggestions and experience of Sunday Mock**

**Note:- If you face any problem regarding result or marks scored, please contact 9313111777**