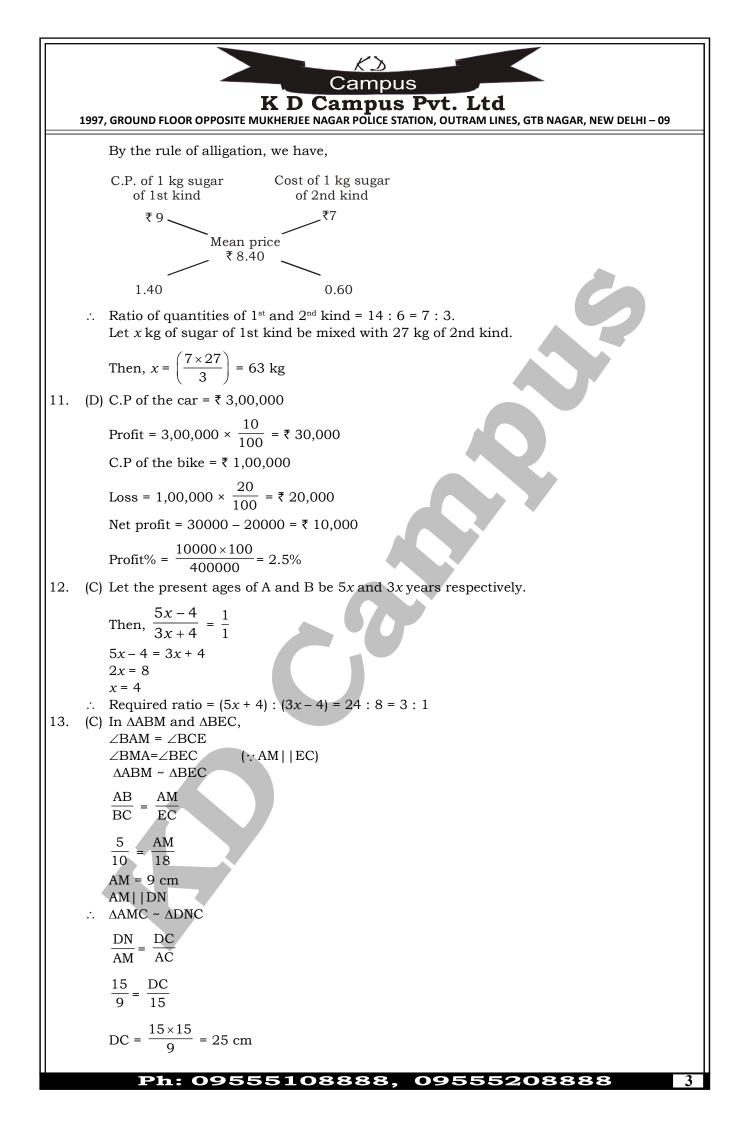
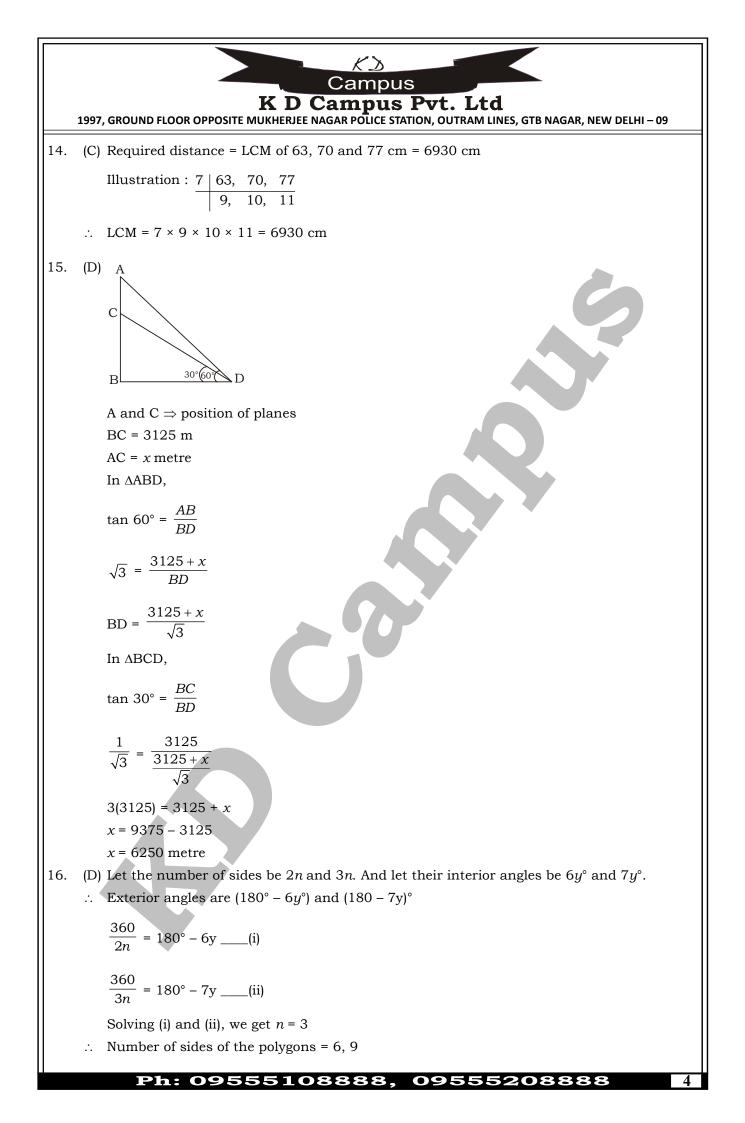
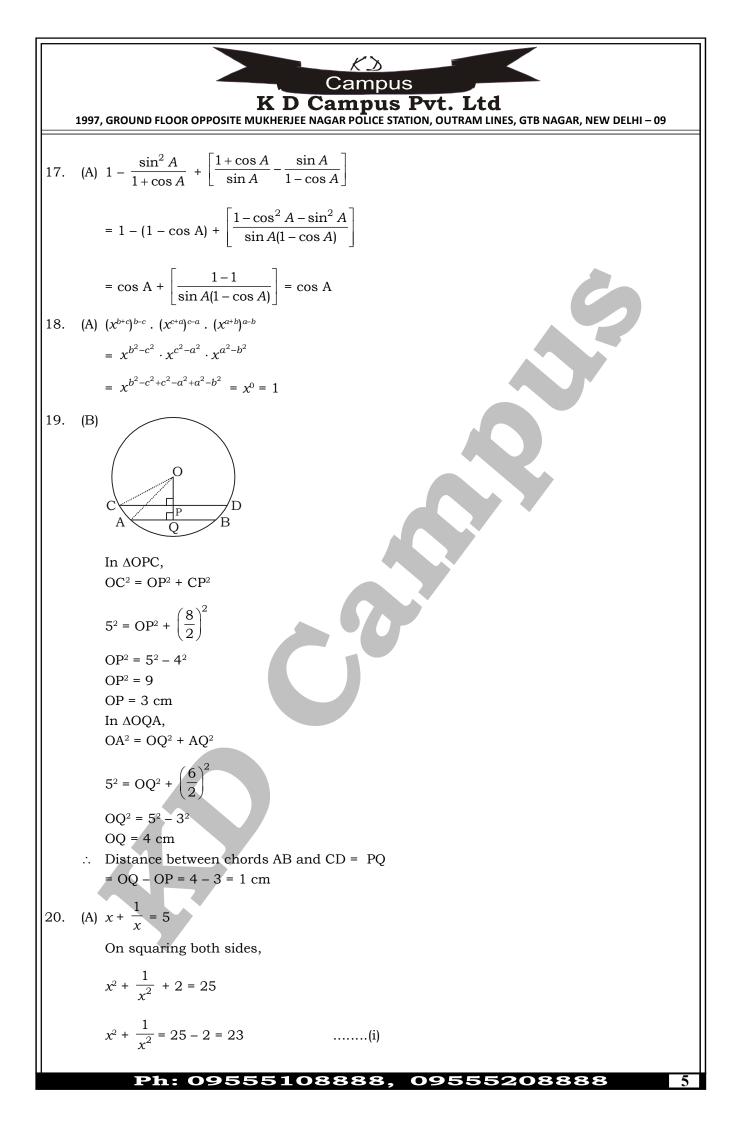
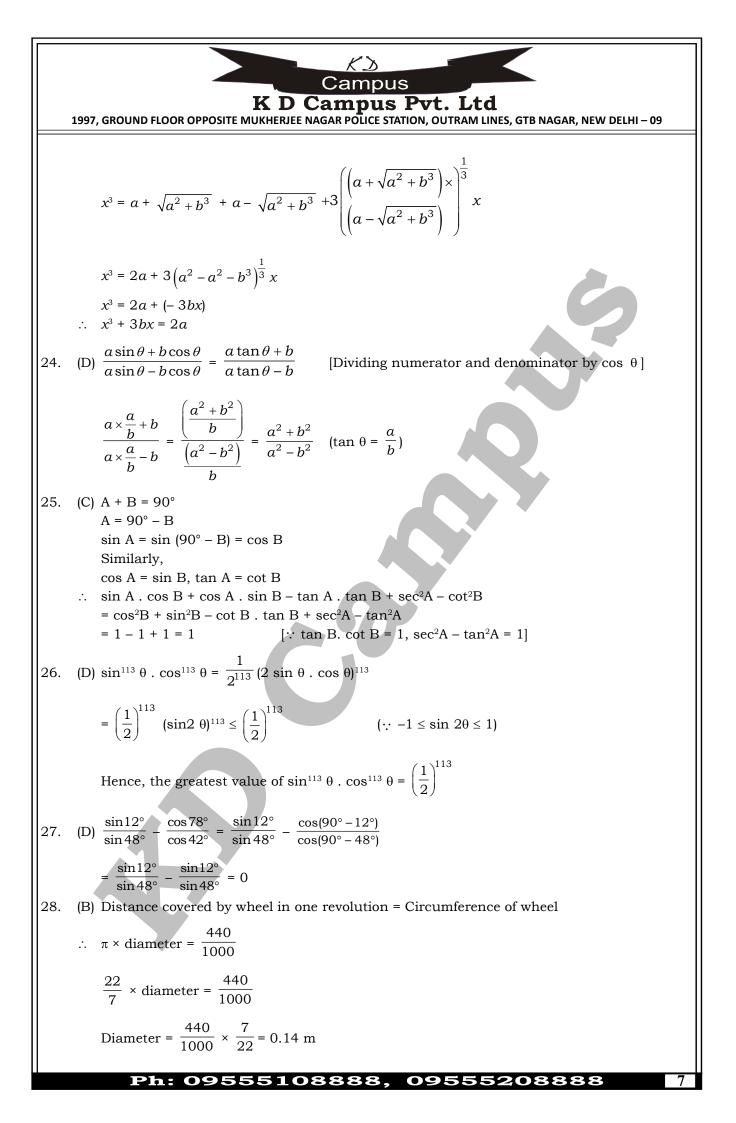


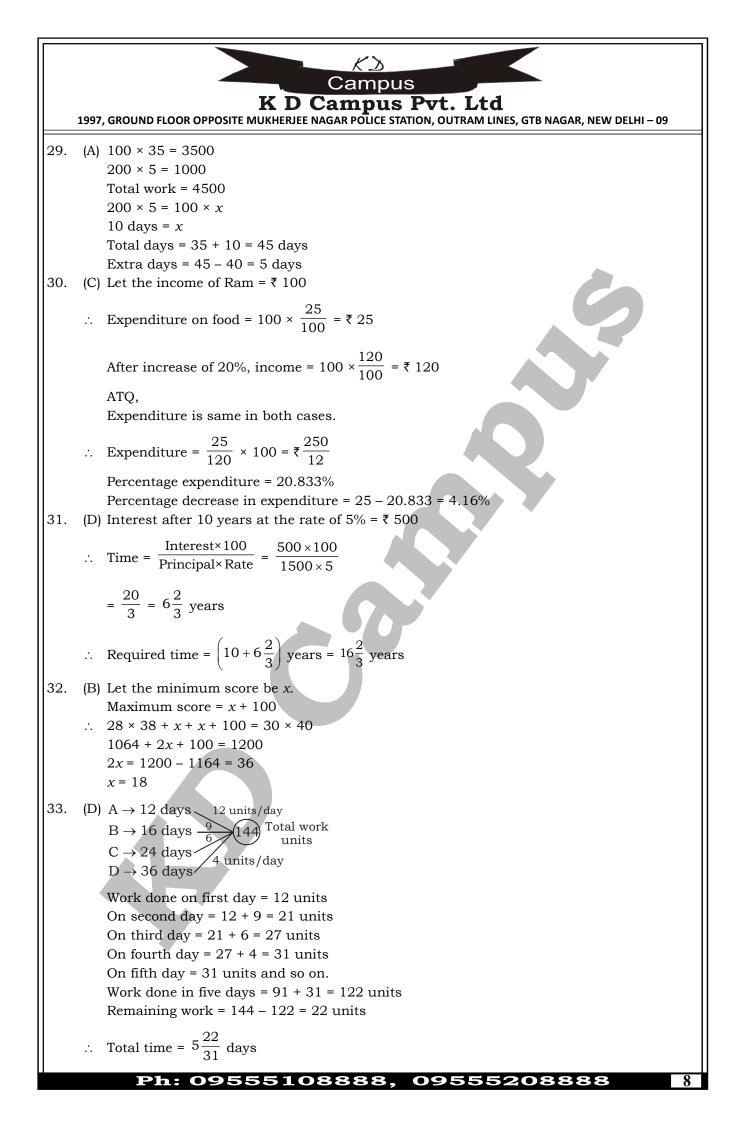
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6.	(B)	Initial	Present							
		20	19							
		10	11							
		25	28							
		5,000	5852							
		↓×20	↓×20							
		1,00,000	1,17,040							
		profit after 3 years = 117040 – 100000 = ₹ 17040								
7.	(B)	СР	: MP							
		(100 – 25)	: (100 + 12.5)							
		75	: 112.5							
		2	: 3							
		↓×300	↓×300							
		600	: 900							
		Cost price of	of the article = ₹ 600							
3.	(B)	∠ACD = ∠A	ADC = x							
		∠CAD = (18	$30^\circ - 2x$)							
	$BAC = \frac{X}{2}$ (: $\angle ABC + \angle BAC = \angle ACD = x$)									
		$\angle BAC + \angle C$	$CAD + 81^{\circ} = 180^{\circ}$							
		X . (100%	$(-2x) + 81^\circ = 180^\circ$							
		$\frac{1}{2}$ + (180°	$(-2x) + 81^{\circ} = 180^{\circ}$							
		3								
		$\frac{3}{2}X = 81^{\circ}$								
		X = 54°								
9.	(D)	Ratio of cap	pitals of A, B and C for 1 year							
		= (40500 ×	12 + 4500 × 6) : (45000 × 12) : (60000 × 6 + 45000 × 6)							
		= 513 : 540	0:630 = 57:60:70							
		Sum of the	e ratios = 57 + 60 + 70 = 187							
			70 – 57							
		Required di	ifference = $\frac{70-57}{187} \times 56100$							
		12								
		$=\frac{13}{187} \times 56$	6100 = ₹ 3900							
10.	(D)	S.P. of 1 kg	g of mixture = ₹ 9.24							
	(-)	Gain = 10%								
	<i>.</i>	C.P. of 1 kg	g of mixture = ₹ $\left(\frac{100}{110} \times 9.24\right)$ = ₹ 8.40							

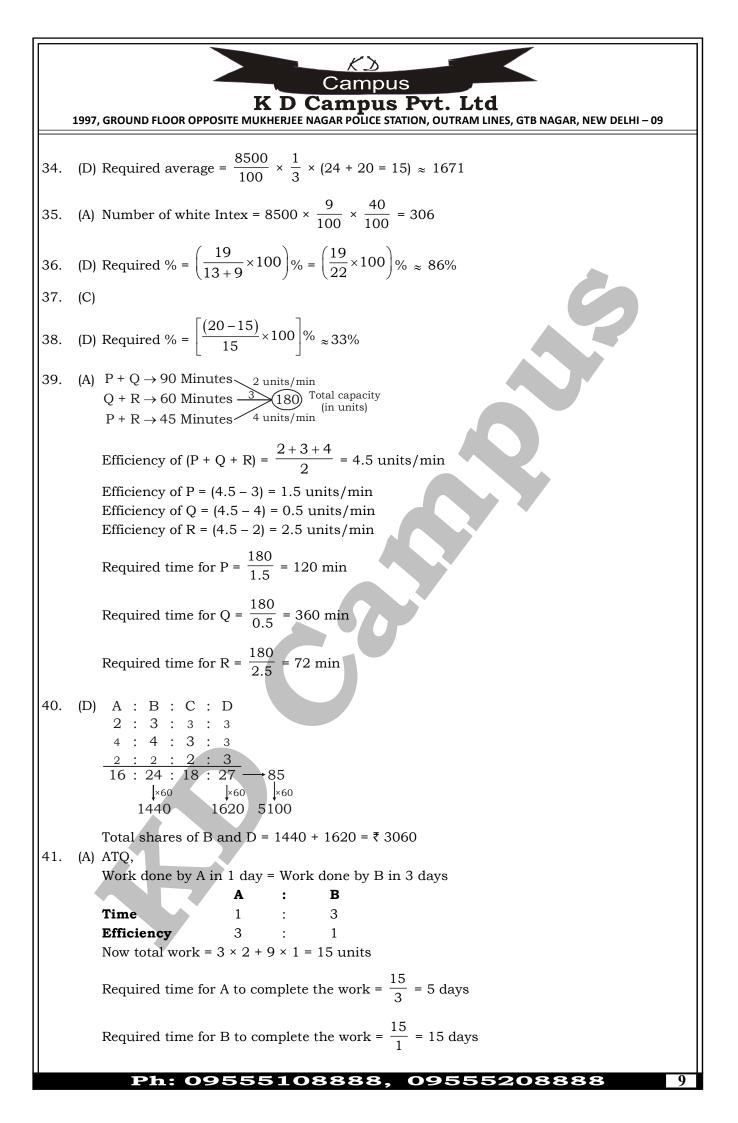


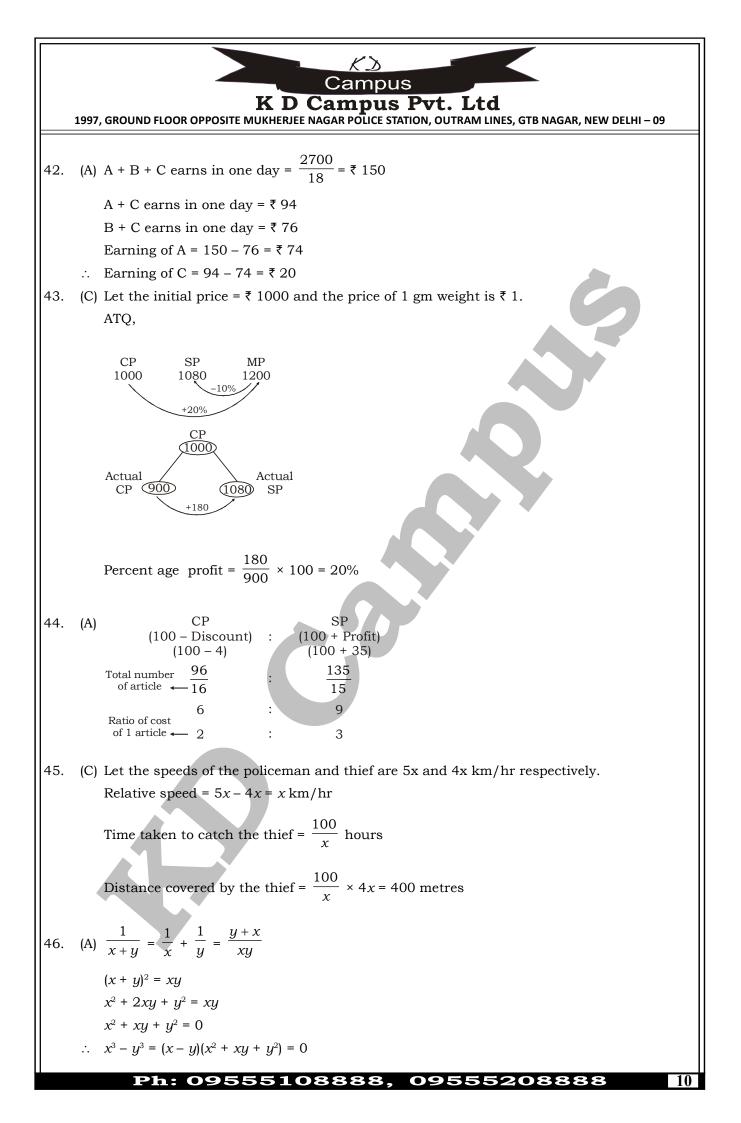




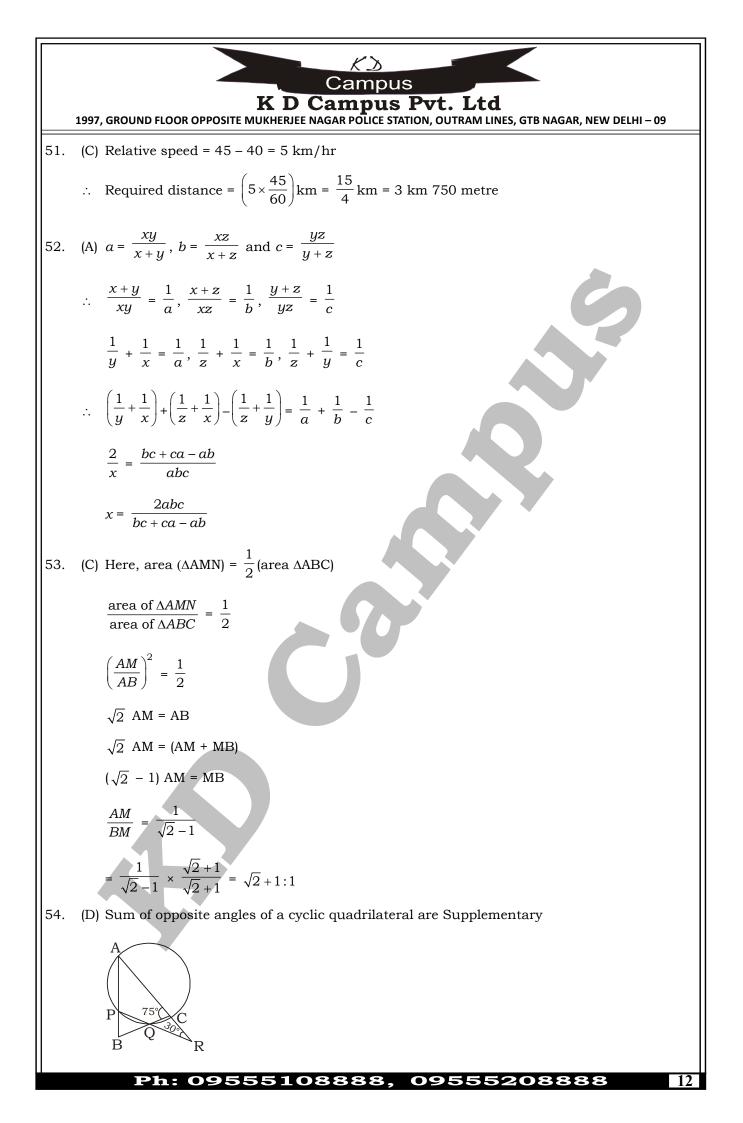


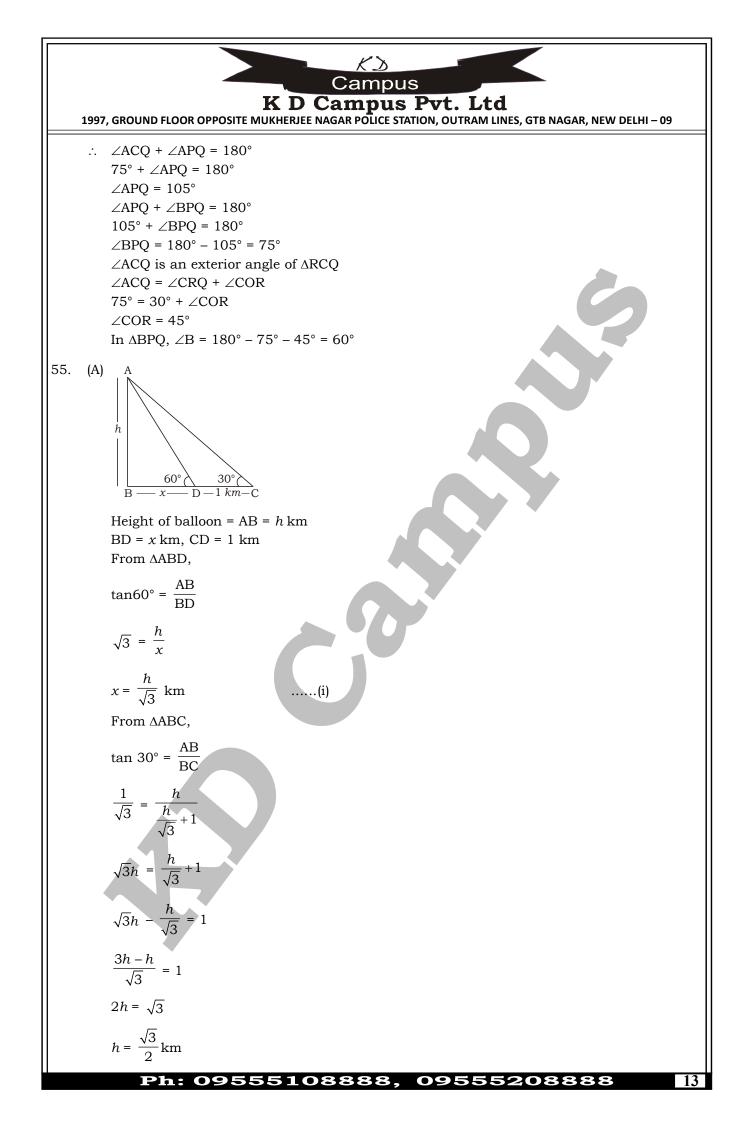


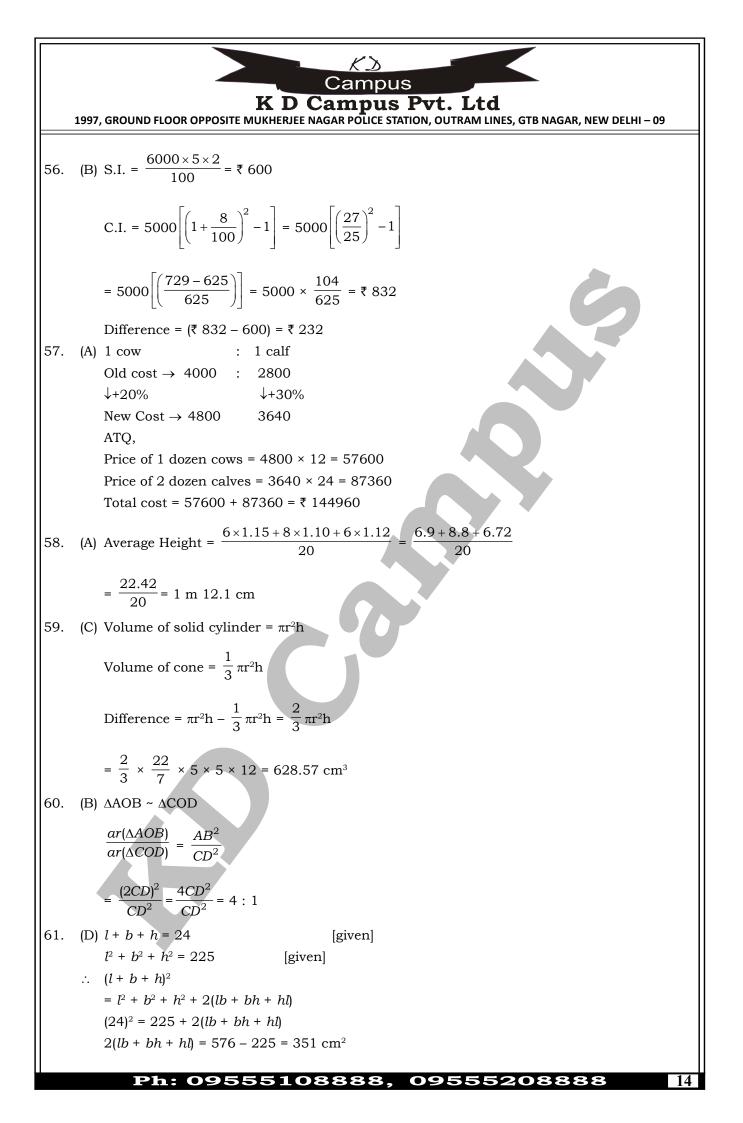


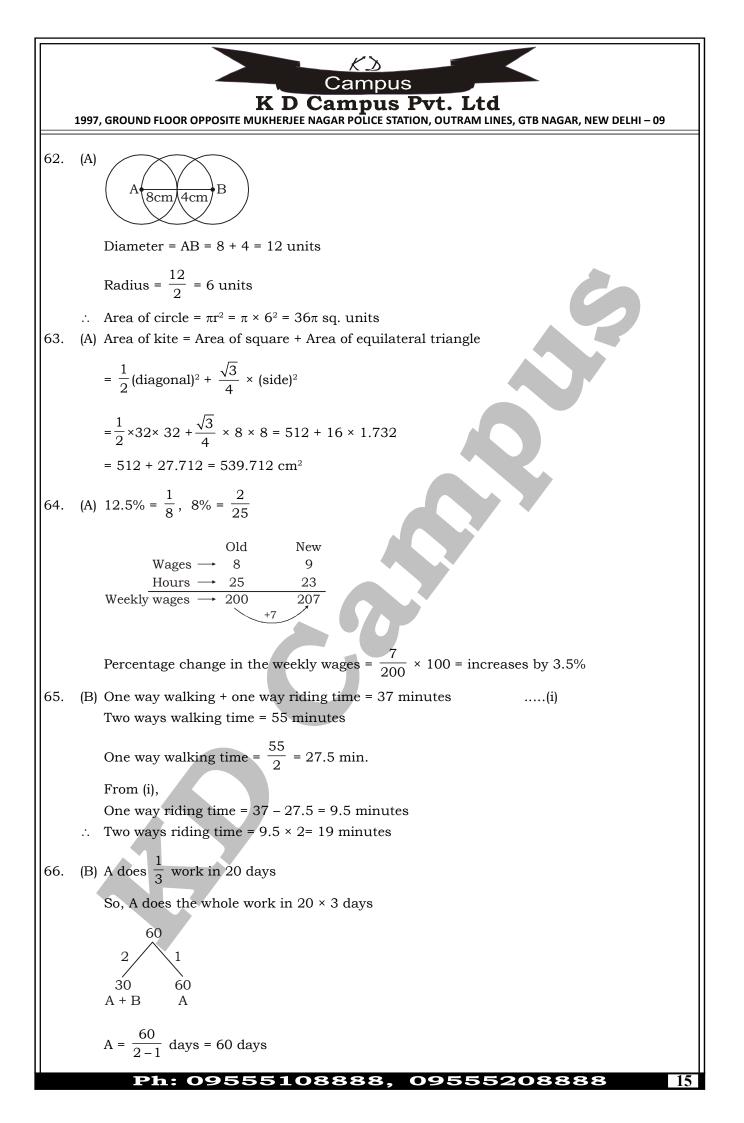


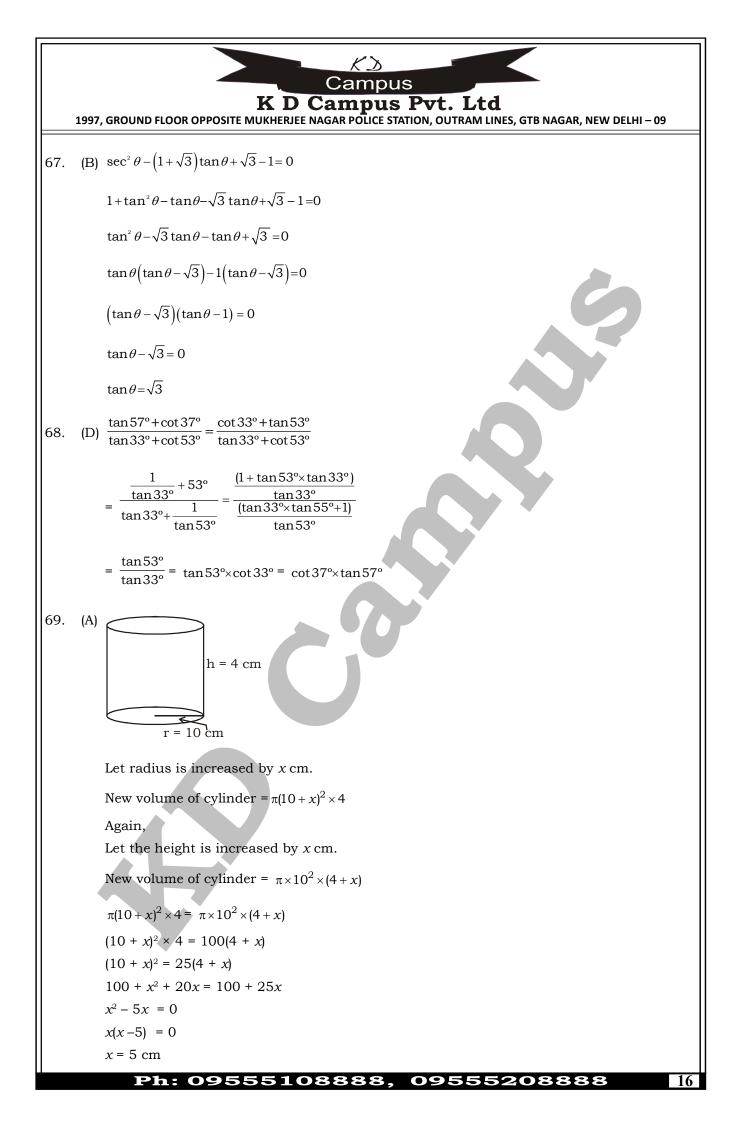
Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09 47. (C) S.P. of house and shop is same. Loss percent in the transaction = $\frac{x^2}{100} = \frac{(20)^2}{100} = 4\%$ $4\% = \frac{1}{25} \xrightarrow{\rightarrow} \text{c.p.}$ SP = 25 - 1 = 24 1:24Given SP of both house and shop = 2 lakh 24 units = 2 1 unit = $\frac{2}{24} = \frac{1}{12}$ \therefore Loss = ₹ $\frac{1}{12}$ lakh 48. (C) Let the required distance = LCM of (10, 12) = 60 km 10 km/hr 12 km/hr / 5 hrs 6 hrs 60 km Difference in time = 6 - 5 = 1 hour = 60 minutes Given difference in time = 6 + 6 = 12 minutes $\therefore 60 \rightarrow 12$ Hence, the required distance = 12 km (D) Cost price at which the retailer bought T.V. = $6400 \times \frac{3}{4} \times \frac{17}{20} = ₹4080$ 49. Hence, $\frac{9}{10} \times \text{new MRP} = \frac{6}{5} \times 4080$ New MRP = $\frac{6}{5} \times \frac{10}{9} \times ₹4080 = \frac{4}{3} \times 4080 = ₹5440$ 50. (A) $20\% = \frac{1}{5}$ Price $\rightarrow 5 - 4$ Quantity $\rightarrow 4 - 5$ 16 x^4 1 kg 204 kg Original price = $\frac{240}{16}$ = ₹ 15/kg Reduced price = $\frac{240}{20}$ = ₹ 12/kg 09555108888, 095 Ph:



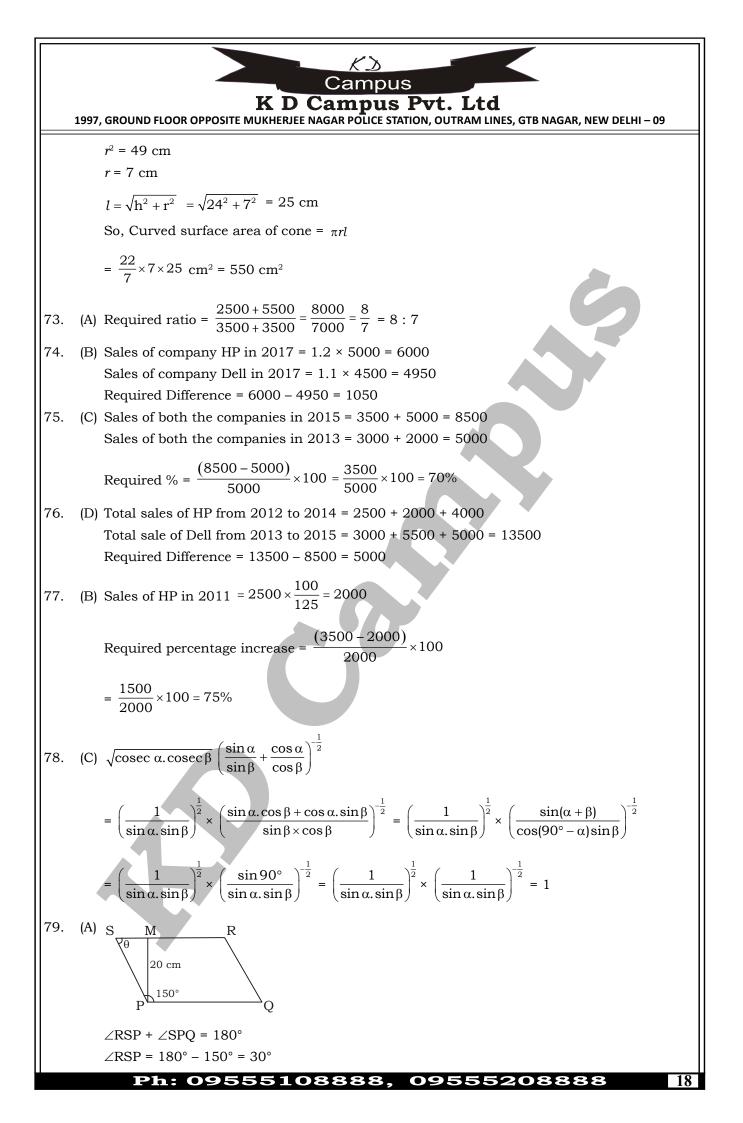


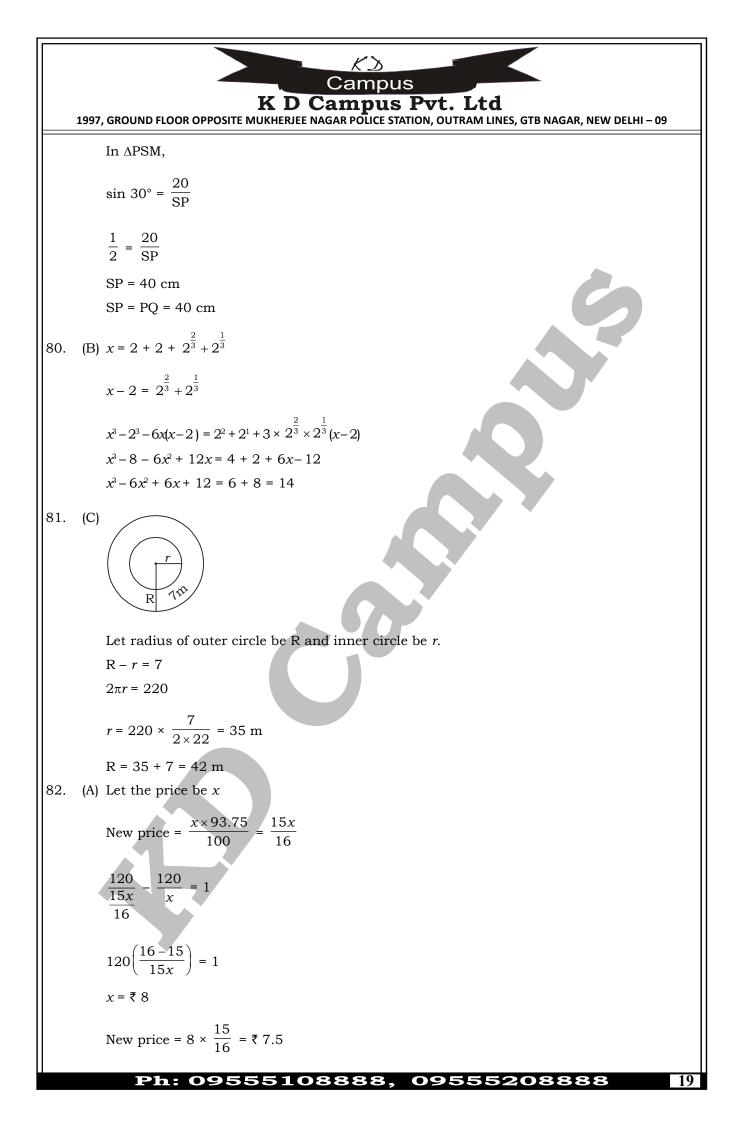


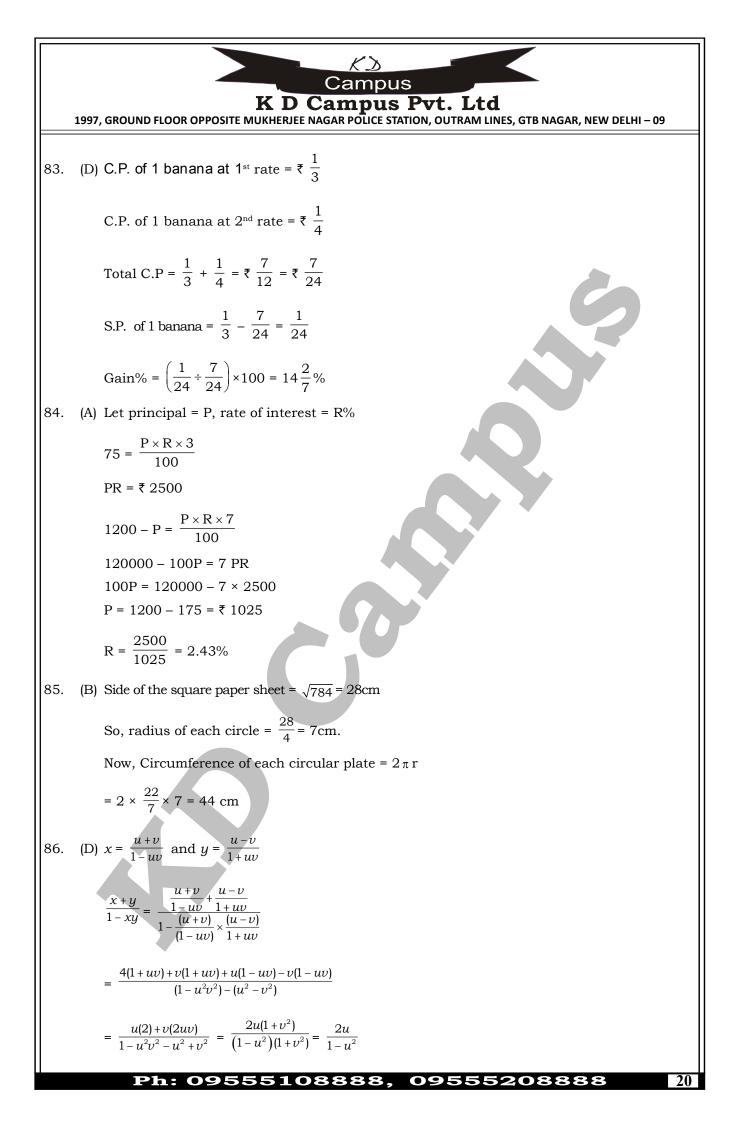


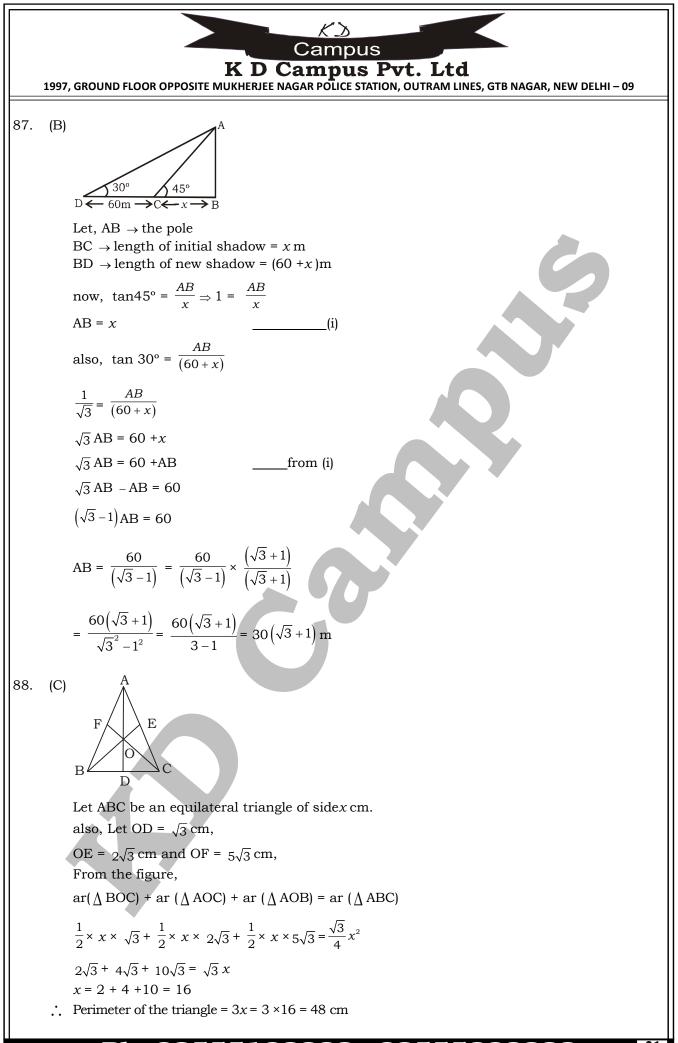


ヒン Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09 70. (C) Ratio of number of sides = 1 : 2 Then, Let the numbers of sides are n and 2nNow, Ratio of their interior angles = 2:3 $\frac{\frac{(2n-4)}{n} \times 90^{\circ}}{\frac{(4n-4)}{2n} \times 90^{\circ}} = \frac{2}{3} \implies \frac{2n-4}{4n-4} = \frac{1}{3}$ 6n - 12 = 4n - 42*n* = 8 *n* = 4 Respective numbers of sides of these polygons are 4 and 8. 71. (A) $4 \pi r^2 = 2 \pi (r + h_2) = \pi r(l + r)$ $4r = 2(r + h_2) = l + r$ Now, $4r = 2(r + h_2)$ $4r = 2r + 2h_{2}$ $2r = 2h_2$ $r: h_2 = 1: 1$ Again, 4r = l + r $4r = \sqrt{r^2 + h_3^2} + r$ $3r = \sqrt{r^2 + h_3^2}$ $9r^2 = r^2 + h_3^2$ $8r^2 = h_3^2$ $2\sqrt{2}r = h_3$ $r: h_2 = 1: 2\sqrt{2}$ $r(h_1): h_2: h_3 = 1: 1: 2\sqrt{2}$ 72. (B) 24 Volume of cone = 1232 cm^3 $\frac{1}{3}\pi r^2 h = 1232 \text{ cm}^3$ $\frac{1}{3} \times \frac{22}{7} \times r^2 \times 24 = 1232 \text{ cm}^3$ $\mathbf{r}^2 = \frac{1232 \times 7 \times 3}{2}$ 22×24 09555108888, 09555208888 Ph:







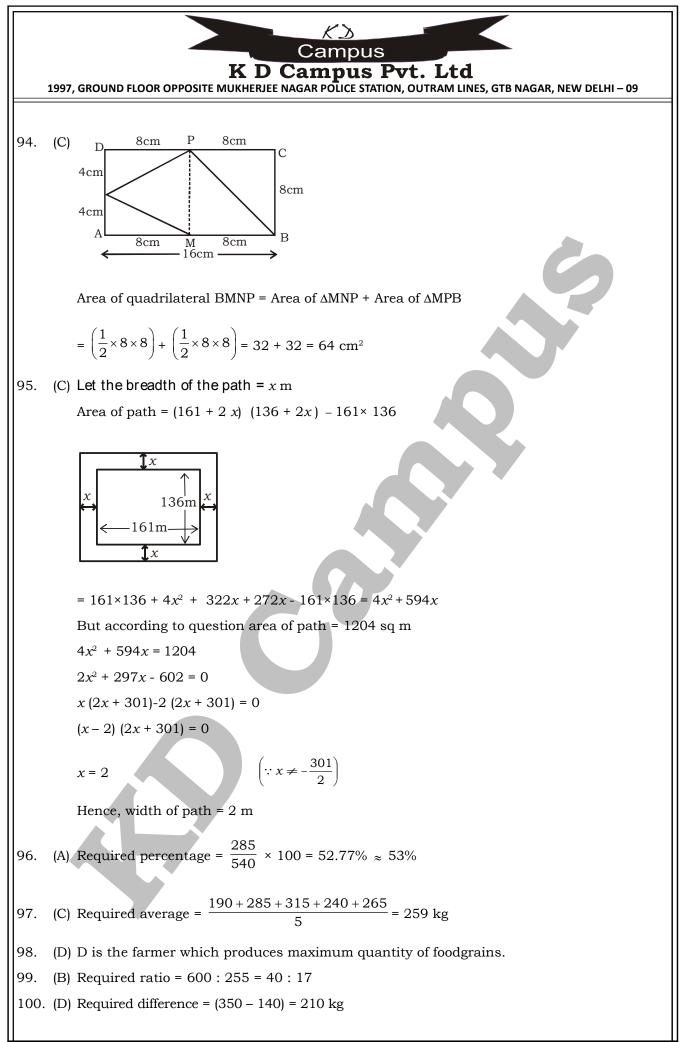


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EXAMPLE 1997. CROWNER PLOTE MORAR PAGE STATION, OUTRAM LIMES, GTB MAGAR, NEW DELHI - 09
89. (C) As. AB = AC

$$\angle ACB - \angle ABC - 50^{\circ}$$

 $BAC = 180^{\circ} - (50 + 50) = 80^{\circ}$
 $\angle BDC = \angle BAC - 80^{\circ}$ (angles in the same segment)
90. (C) As AE is an exterior angle bisector
Let CE = x, BE = BC + EC = 12 + x
 $\frac{12 + x}{x} = \frac{10}{6}$
 $(12 + 3) 6 = 10x$
 $72 + 6x = 10x$
 $4x - 72$
 $x = 18 \text{ cm}$
91. (D) Here, BD - wall
Also, BC = CD = $\frac{BD}{2} = x$ (let)
 $\int_{0}^{1} \frac{\sqrt{3}}{2} = \frac{x}{16}$
 $x = 8\sqrt{3} = 13.856$
 \therefore Height of the wall = 2 × 13.856 = 27.712 m
92. (B) Let the length of the smaller line segment = x cn
The length of larger line segment = (x + 2)cm
According to the question.
 $(x + 2)^{2} + x^{2} = 32$
 $x^{2} + 4x + 4 - x^{2} = 32$
 $4x = 32 - 4 = 28$
 $4x = \frac{32}{4} = 7$
The required length = $x + 2 = 7 + 2 = 9$ cm
93. (A) The volume of ion used = $\frac{x}{4}h - \pi \frac{\pi}{4}h$
 $= \pi h (r_{0}^{2} - r_{0}^{2}) = \frac{22}{7} \times 20 (8^{2} - 6^{2})$
 $= \frac{27}{7} \times 20 \times 28 = 1760 \text{ cu. cm}$



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QUANTITATIVE ABILITY - 85 (ANSWER KEY)

_							
1.	(B)	26. (I		51.		76.	(D)
2.	(A)	27. (I	D)	52.	(A)	77.	(B)
3.	(C)	28. (E	В)	53.	(C)	78.	(C)
4.	(C)	29. (A	A)	54.	(D)	79.	(A)
5.	(B)	30. (0	C)	55.	(A)	80.	(B)
6.	(B)	31. (I	D)	56.	(B)	81.	(C)
7.	(B)	32. (E	В)	57.	(A)	82.	(A)
8.	(B)	33. (I	D)	58.	(A)	83.	(D)
9.	(D)	34. (I	D)	59 .	(C)	84.	(A)
10.	(D)	35. (A	A)	60.	(B)	85.	(B)
11.	(D)	36. (I	D)	61.	(D)	86.	(D)
12.	(C)	37. (0	C)	62.	(A)	87.	(B)
13.	(C)	38. (I	D)	63.	(A)	88.	(C)
14.	(C)	39. (A	A)	64.	(A)	89.	(C)
15.	(D)	40. (I	D)	65.	(B)	90.	(C)
16.	(D)	41. (A	A)	66.	(B)	91.	(D)
17.	(A)	42. (A	A)	67.	(B)	92.	(B)
18.	(A)	43. (0	C)	68.	(D)	93.	(A)
1 9 .	(B)	44. (A	A)	69.	(A)	94.	(C)
20.	(A)	45. (C	C)	70.	(C)	95.	(C)
21.	(D)	46. (A	A)	71.	(A)	96.	(A)
22.	(A)	47. (0	C)	72.	(B)	97.	(C)
23.	(C)	48. (0	C)	73.	(A)	98.	(D)
24.	(D)	49. (I	D)	74.	(B)	99.	(B)
25.	(C)	50. (A	A)	75.	(C)	100.	(D)