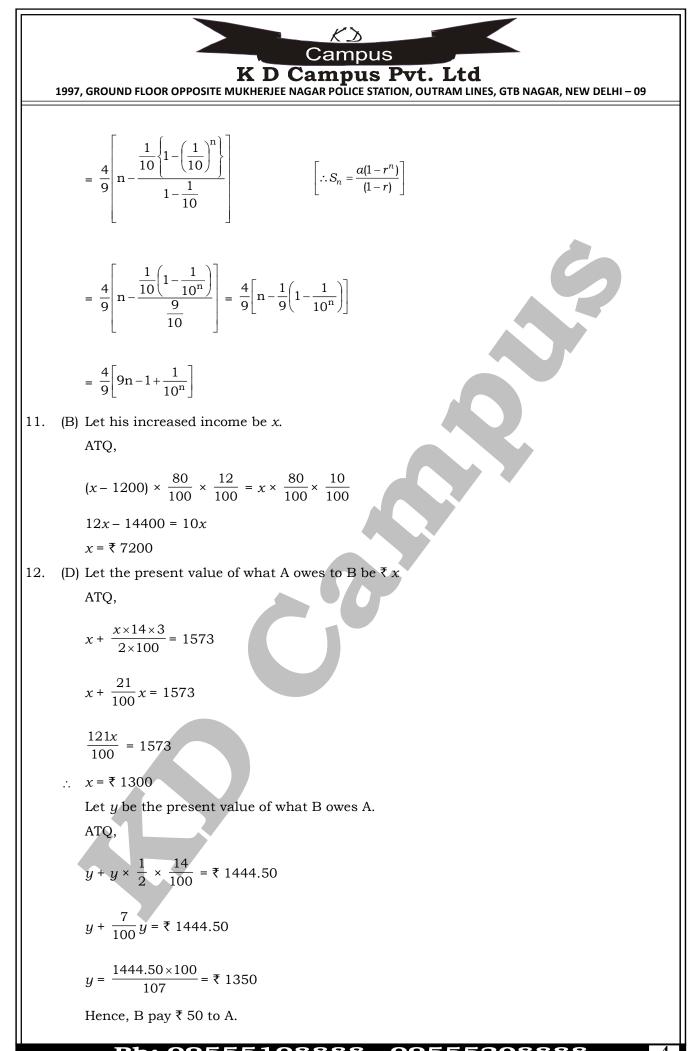
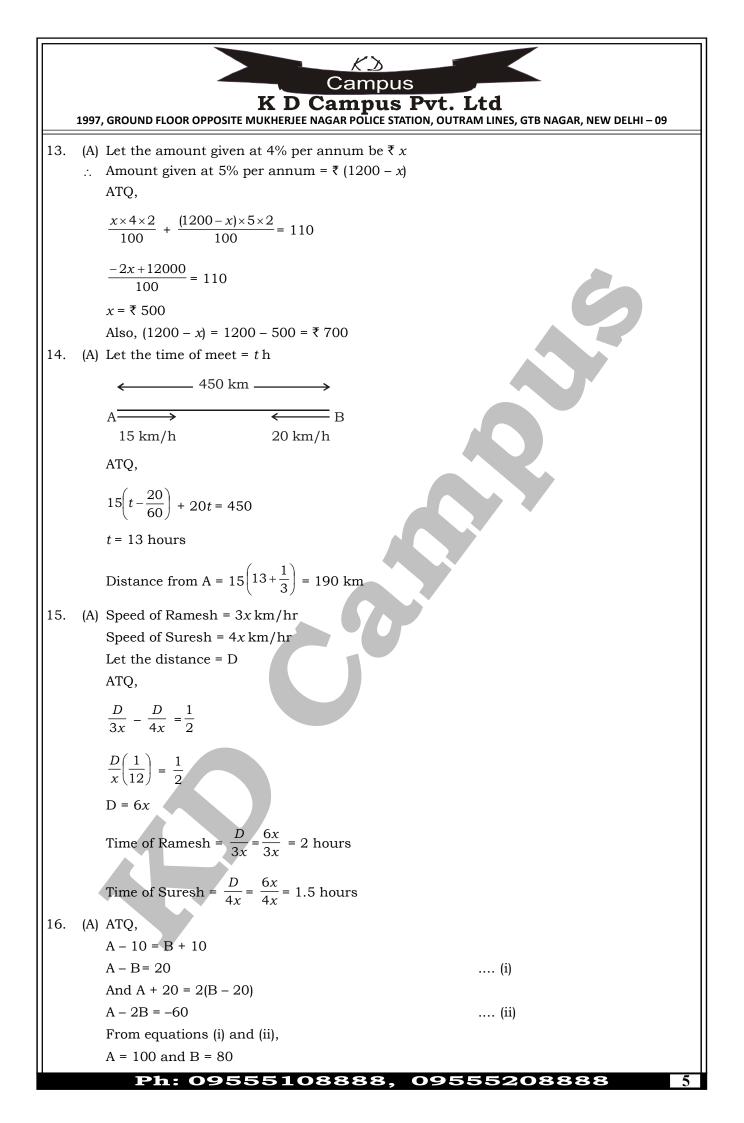
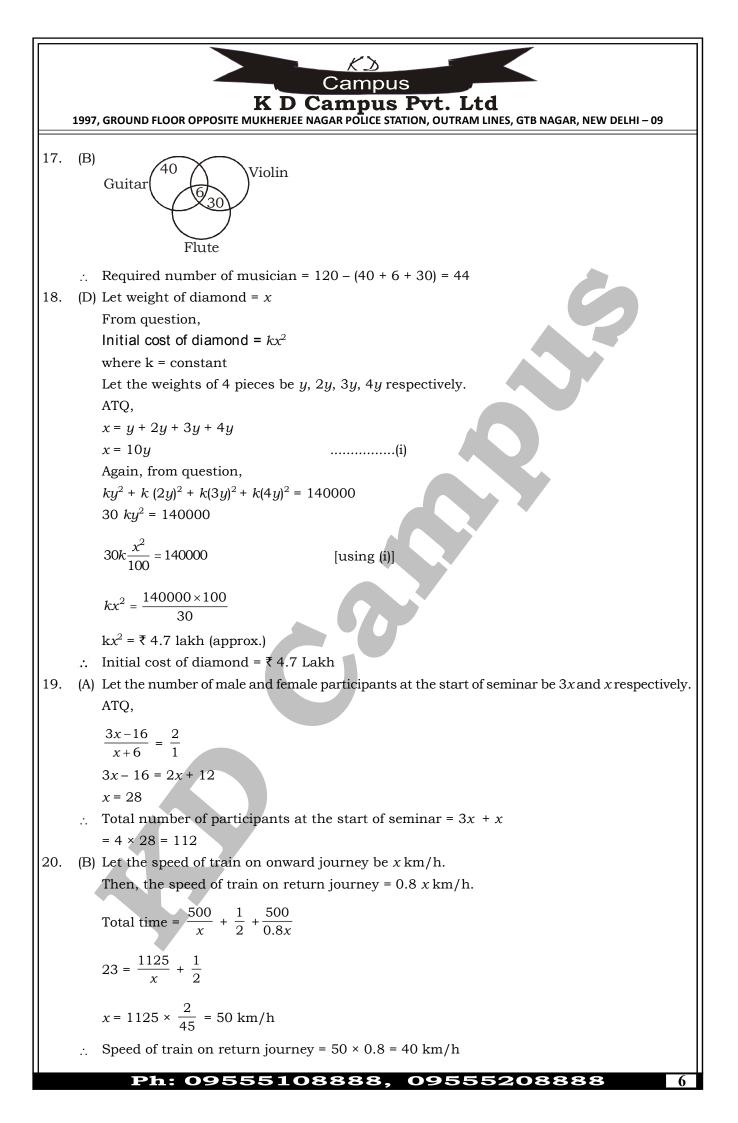


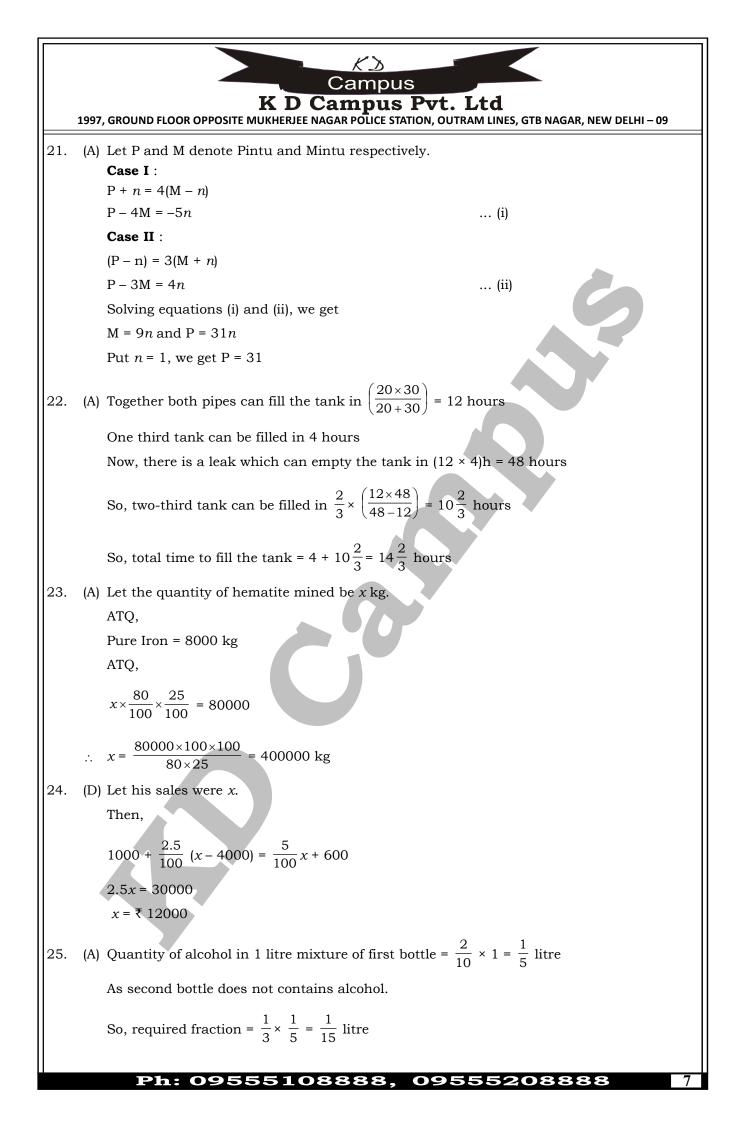
EXAMPLE 1997. GROUND FLOOR OPPOSITE MURIENDE MARKAR FOLDE STATION, OUTRAM LINES, GTB MARKAR, NEW DELHI-09
3600x + 36000 - 3600x - 12(x² + 10x)
36000 = 12(x² + 10x)
30000 = x² + 10x
x² + 10x - 3000 = 0
(x + 60 (x - 50) = 0
x - - 60 or x - 50 (ignore the negative value of x - - 60)
Therefore, emptying capacity of the pump - 50 + 10 - 60 m³/min
7. (i) The smallest number in the series is 1000, a + digits number.
The largest number in the series is 1000, a + digits number to start with 4.
The left most digit (thousands place) of each of the 4 digits numbers other than 4000 can
take one of the 3 values 1 o 2 or 3.
The next 3 digits (hundreds, tens and units place) can take any of the 5 values 0 or 1 or 2 or
3 or 4.
Hence, there are 3 + 5 × 5 × 5 = 375 numbers from 1000 to 3999.
Including 4000, there will be 376 such numbers.
8. (D) Wrong calculated marks - 3 5 × 72 - 2520
Correct average =
$$\frac{2520}{35} = \frac{2570}{35} = 73.42$$

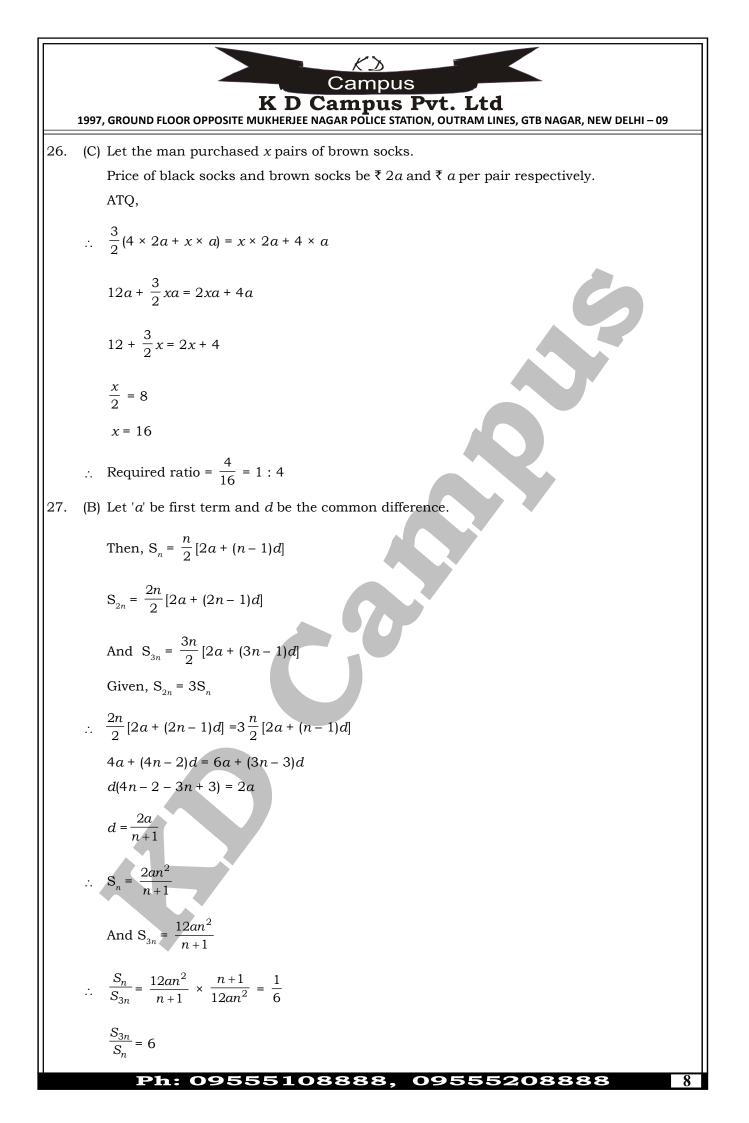
9. (C) If a container contains y units of liquid and x uaits of liquids is taken out. If this operation
is repeated n times.
The final quantity of the acid in the container - $\psi(1 - \frac{w}{y})^2$
 $24 = 54 \left(1 - \frac{x}{54}\right)^2$
 $\left(1 - \frac{x}{54}\right)^2 = \frac{24}{3} = \frac{4}{9}$
 $\left(1 - \frac{x}{54}\right) = \frac{2}{3}$
 $\frac{x}{54} = \frac{1}{3}$
 $x = 18$ litres
10. (B) [B, c = 04 + 0.444 + + to n terms
 $= 4[0, 1 + 0.11 + 0.111 + ... + to n terms]$
 $= \frac{4}{9} \left(\frac{10}{100} + \frac{100}{1000} + + to n terms]$
 $= \frac{4}{9} \left(\frac{10}{10} + \frac{10}{100} + \frac{1000}{1000} + + 10 n terms]$
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 $= \frac{4}{9} \left(\frac{1}{10} + \frac{10}{100} + \frac{1}{1000} + \frac{1}{1000} + + 10 n terms]$
 $= \frac{4}{9} \left(\frac{1}{10} + \frac{10$

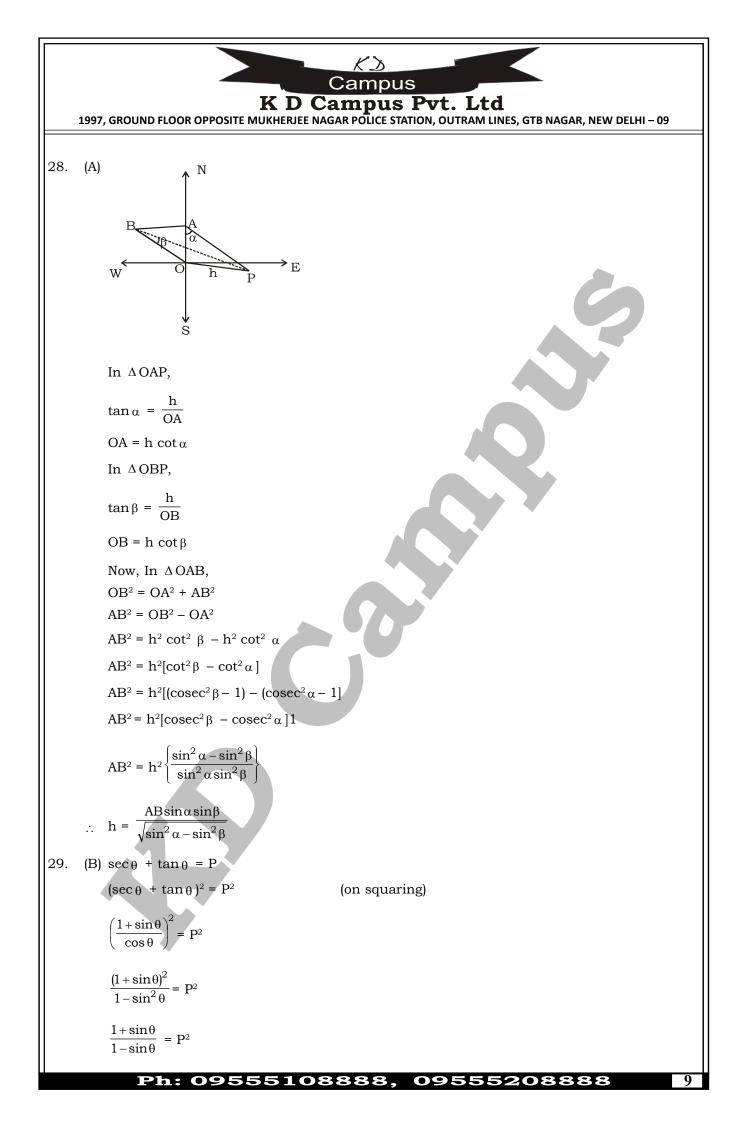


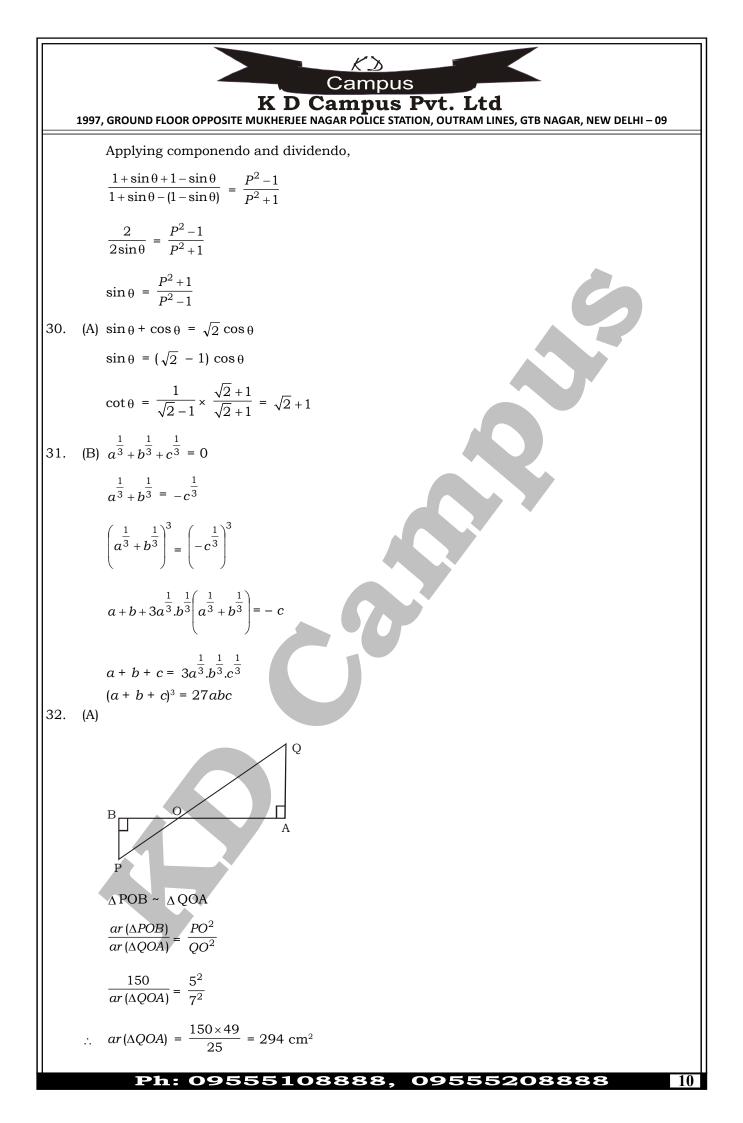


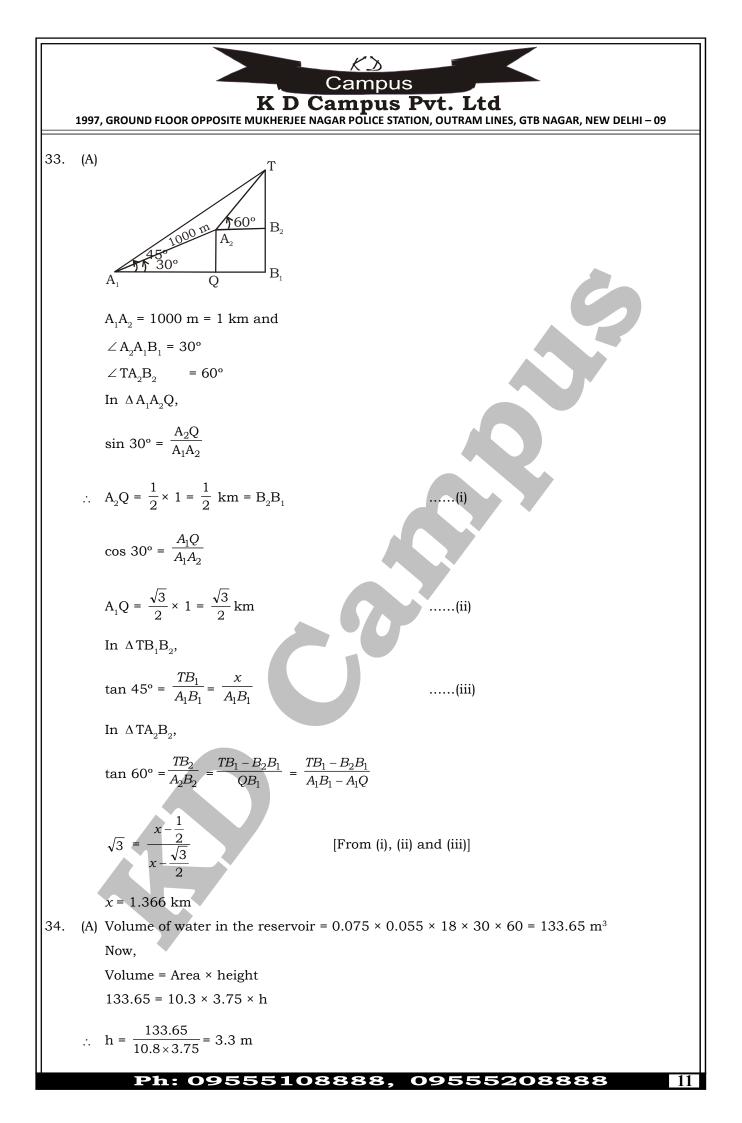


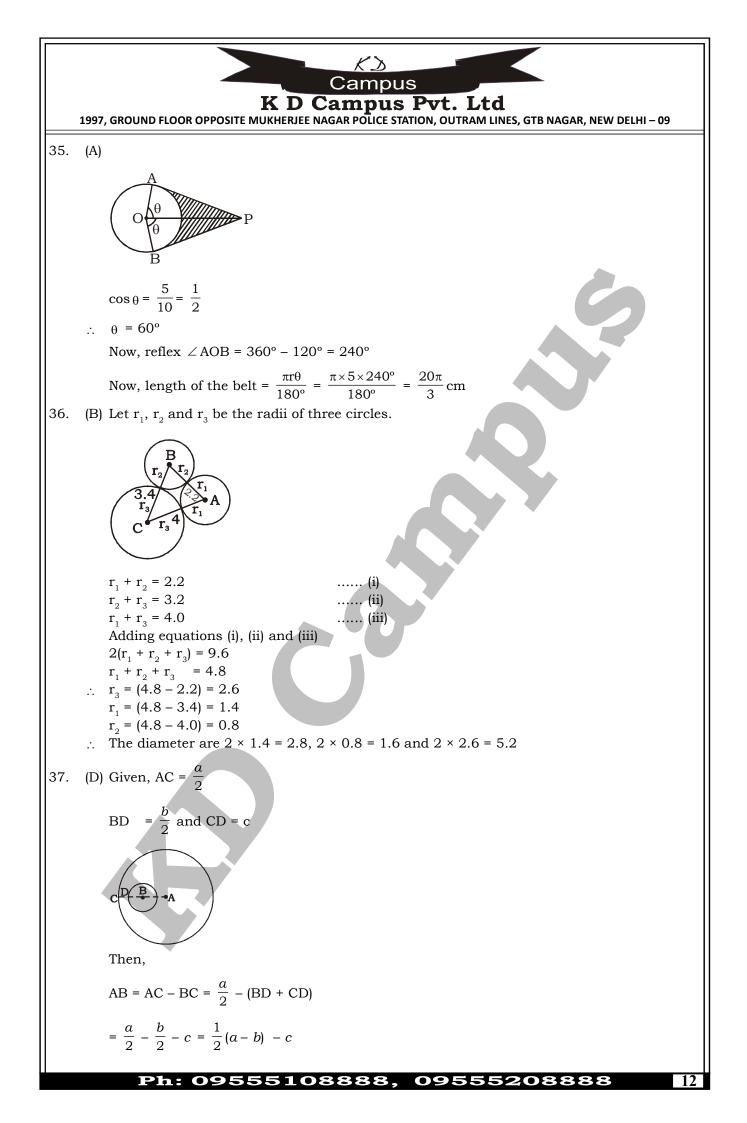


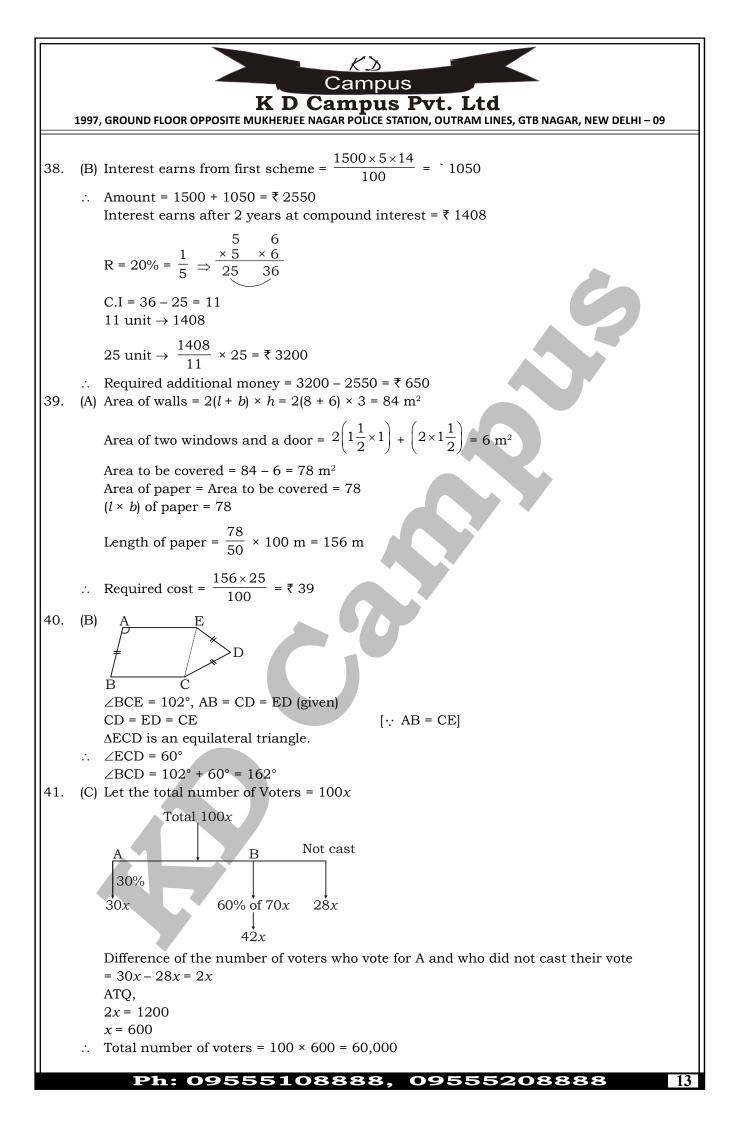


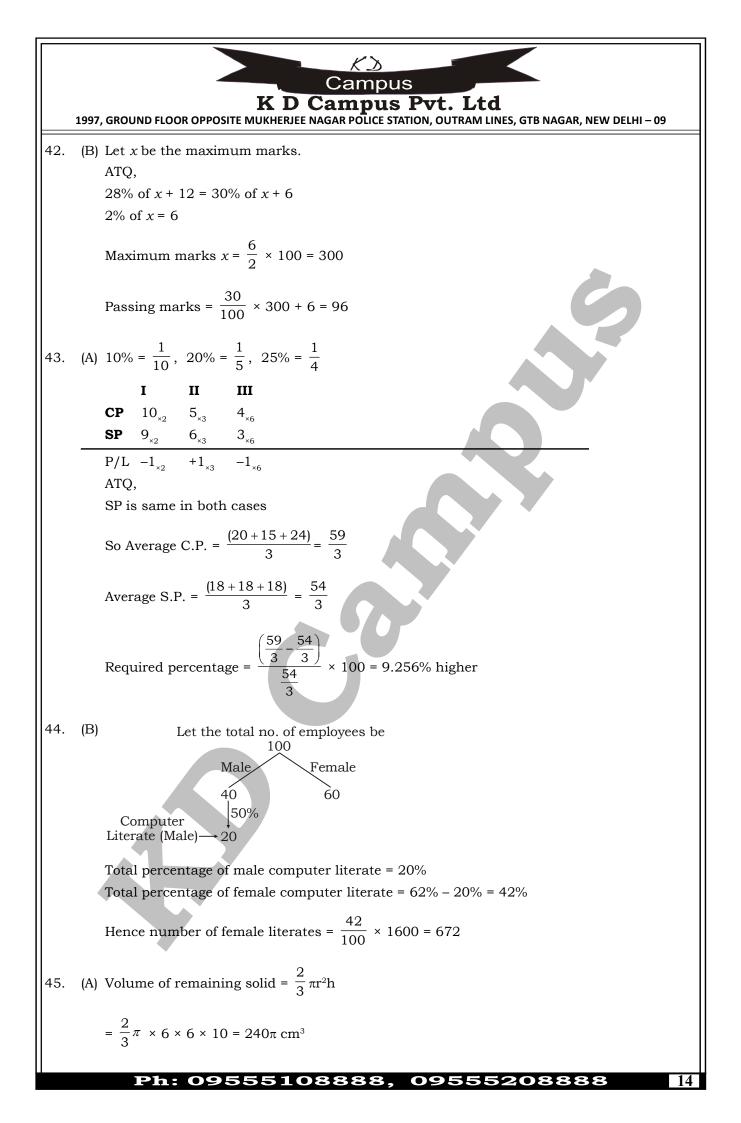


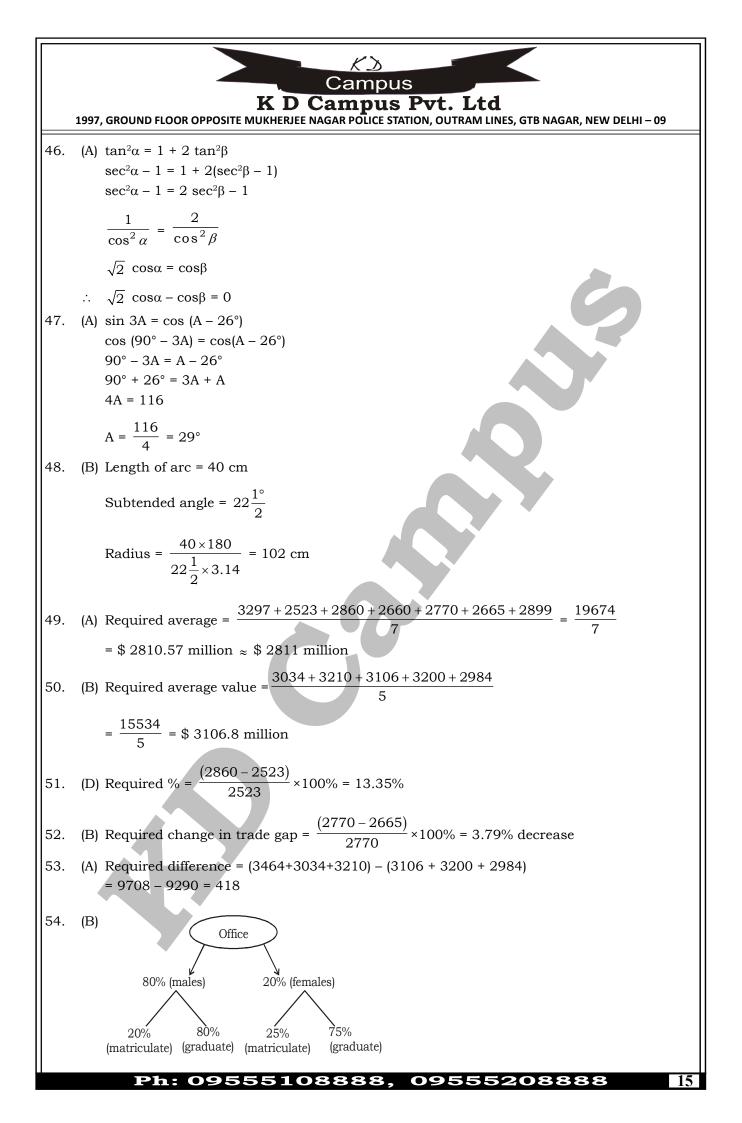


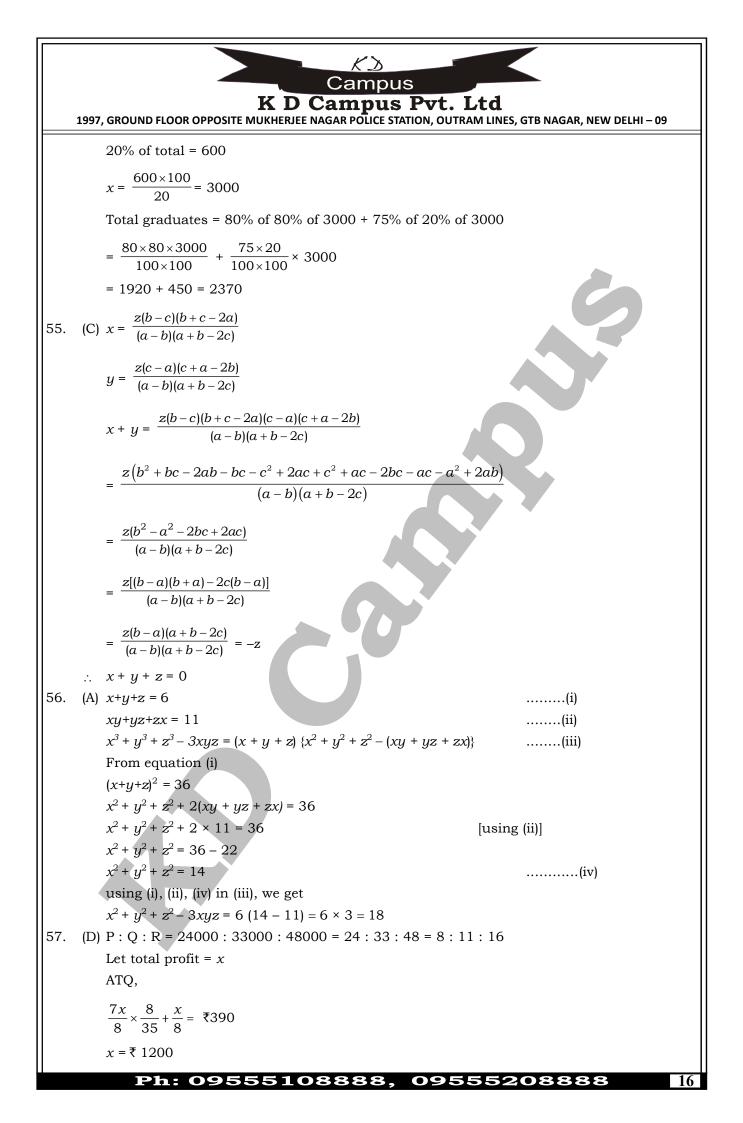


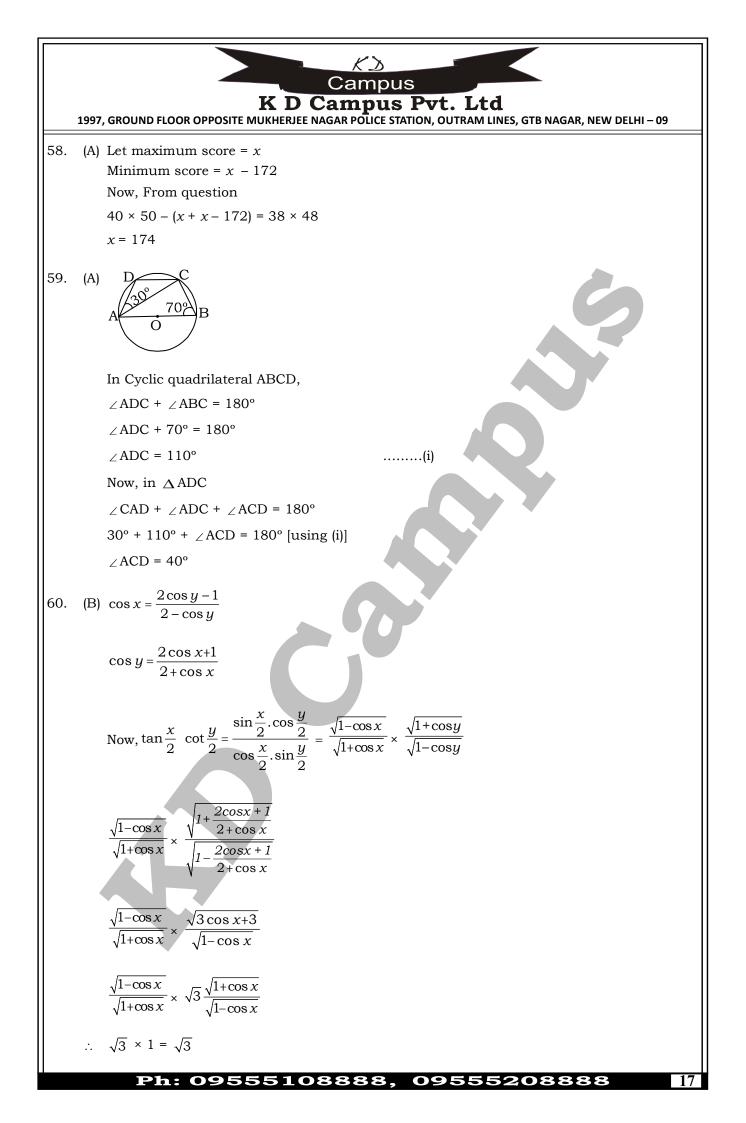


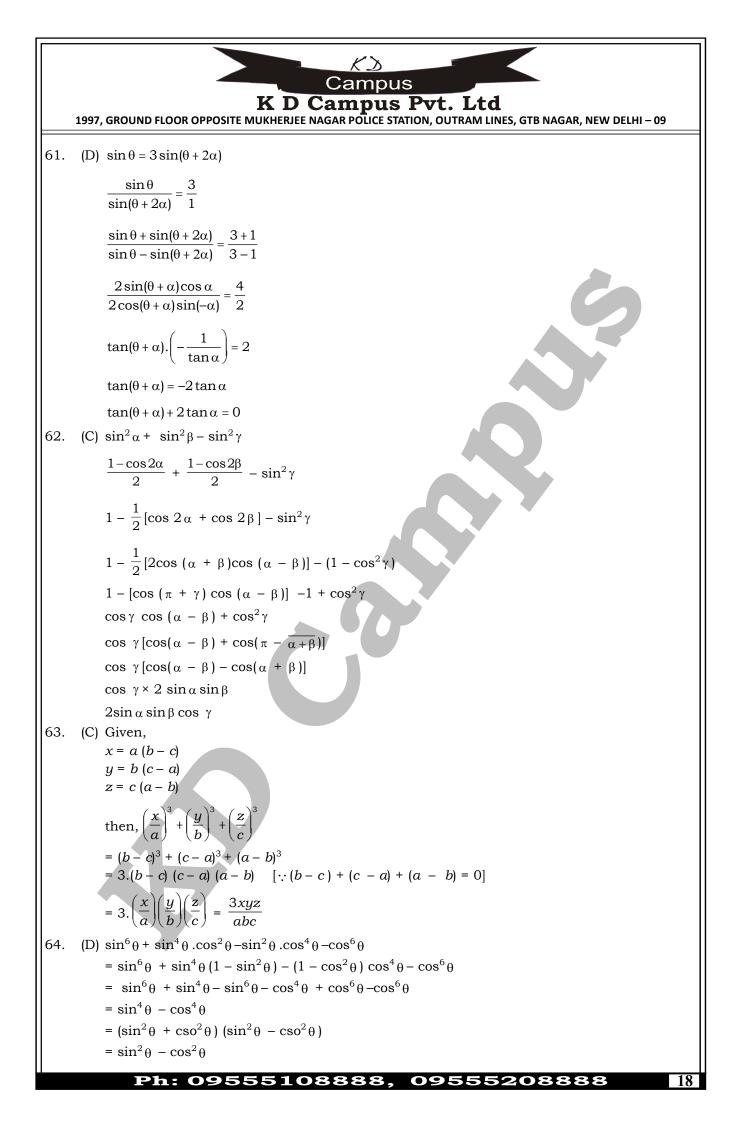


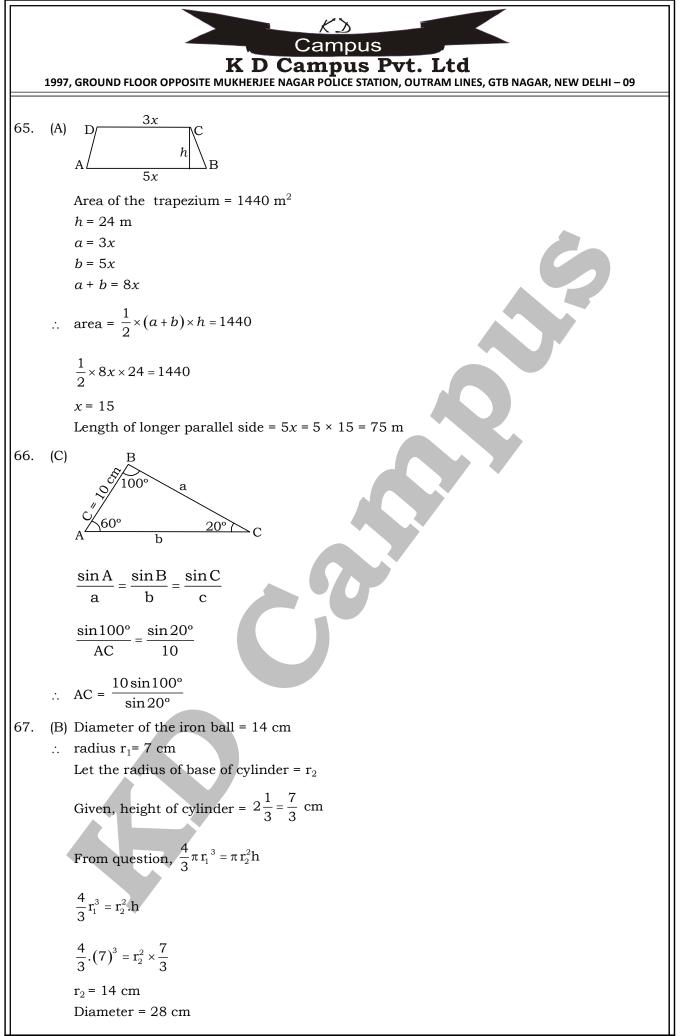




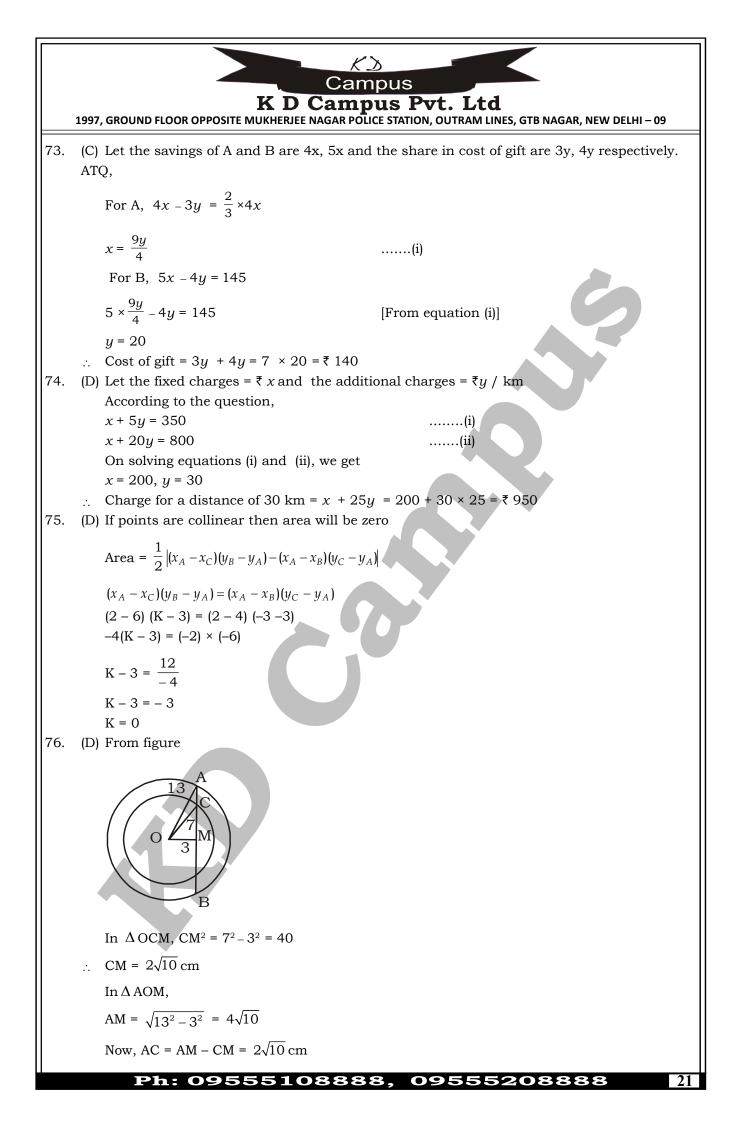


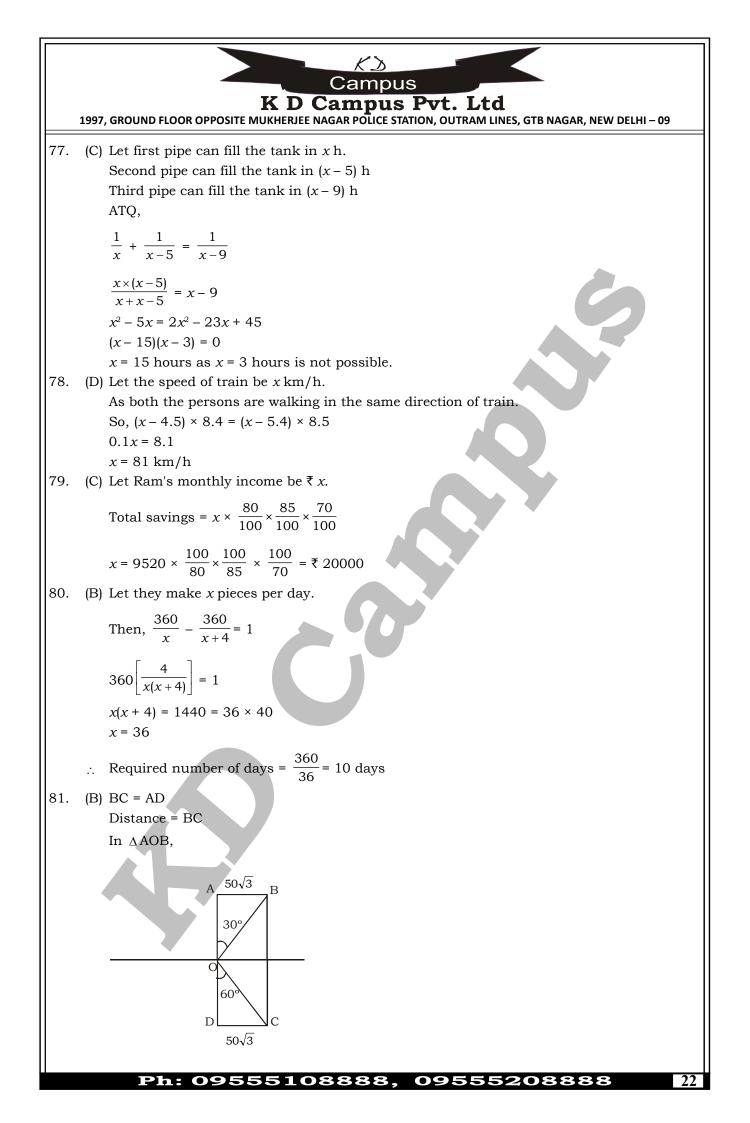


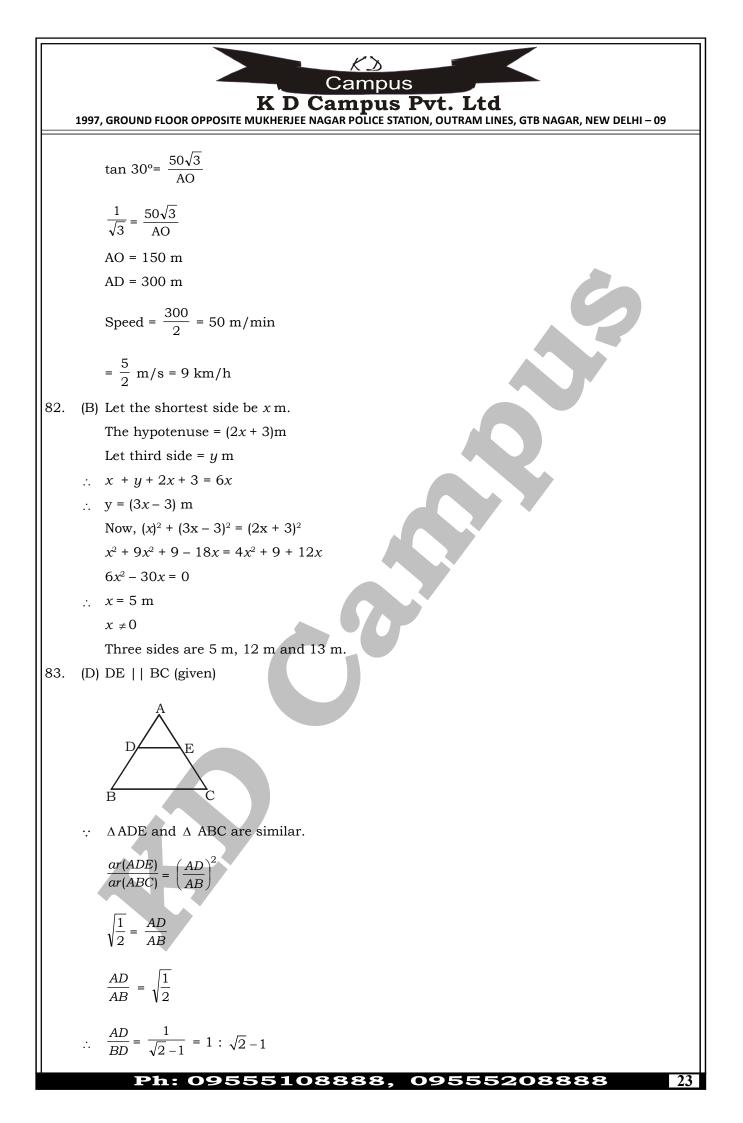


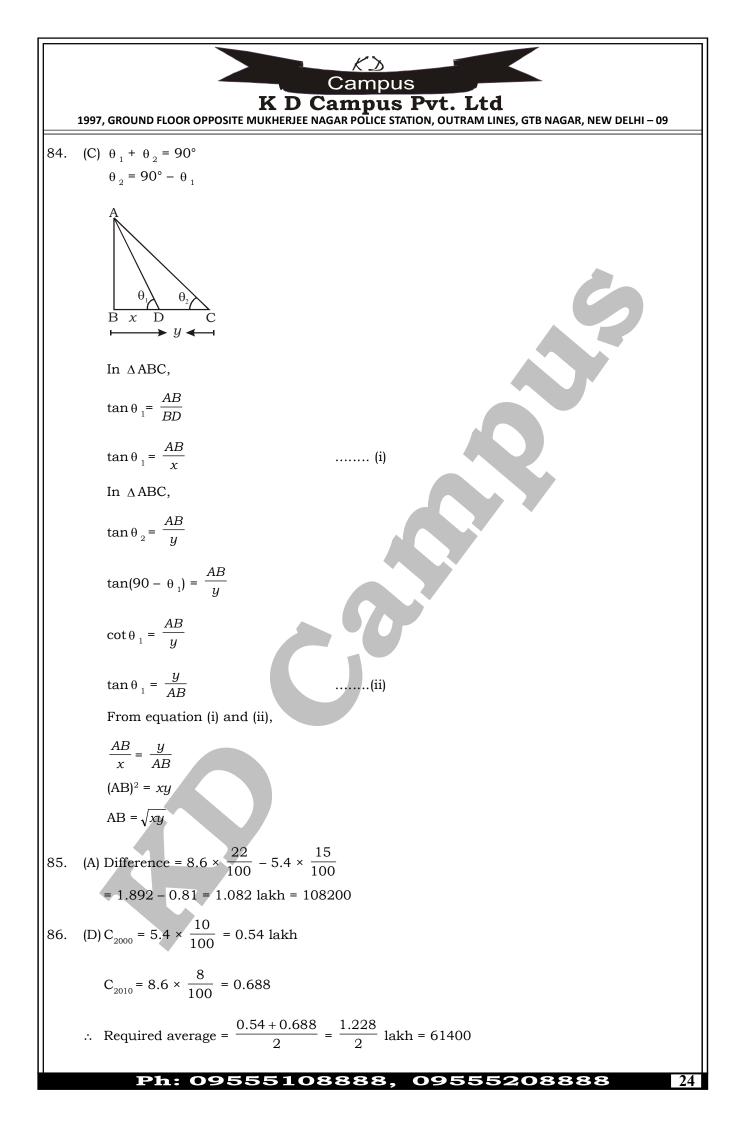


Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09 68. (B) r = 18 mArea of circle = π (18)² = 324 π sqm. Area of flower bed = $324 \pi - (18-3)^2 \pi$ $= 324 \pi - 225 \pi = 99 \pi$ sq. m. $\begin{array}{c} \longrightarrow 20 \text{ km/h} \\ A \hline 500 \text{ km} \\ \hline 30 \text{ km/h} \longleftarrow B \end{array}$ 69. (B) Let the both train will meet after time 't' then, $20 \times t + 30 \times t = 500$ (20 + 30)t = 500t = 10h \therefore The distance of crossing point of the two trains From A = $20 \times t = 20 \times 10 = 200$ km 70. (D) Here, a = 10 L, n = 2 and x = 100L \therefore Quantity of wine in end = $x \left(1 - \frac{a}{x}\right)^n$ $= 100 \left(1 - \frac{10}{100} \right)^2 = 81L$ \therefore Required ratio = 81: (100 – 81) = 81 : 19 71. (A) Let the smaller number = x and the greater number = yATQ, $\left(y-\frac{x}{2}\right) = 4\left(x-\frac{x}{2}\right)$ $y - \frac{x}{2} = 4 \frac{x}{2} \Rightarrow y = 2x + \frac{x}{2}$ $y = \frac{5x}{2}$: y: x = 5:272. (D) Let the numbers of men, women and children are 3y, 2y and y and their wages are 5x, 3x and 2x respectively. Given, 3y = 90y = 30Number of women = 60 and Number of children = 30ATQ, Total daily wages = ₹ 10350 $90 \times 5x + 60 \times 3x + 30 \times 2x = 10350$ x(450 + 180 + 60) = 10350 $x = \frac{10350}{690} = 15$ Daily wage of a man = 15 × 5 = ₹ 75 ÷. 095551088888, Ph: 095

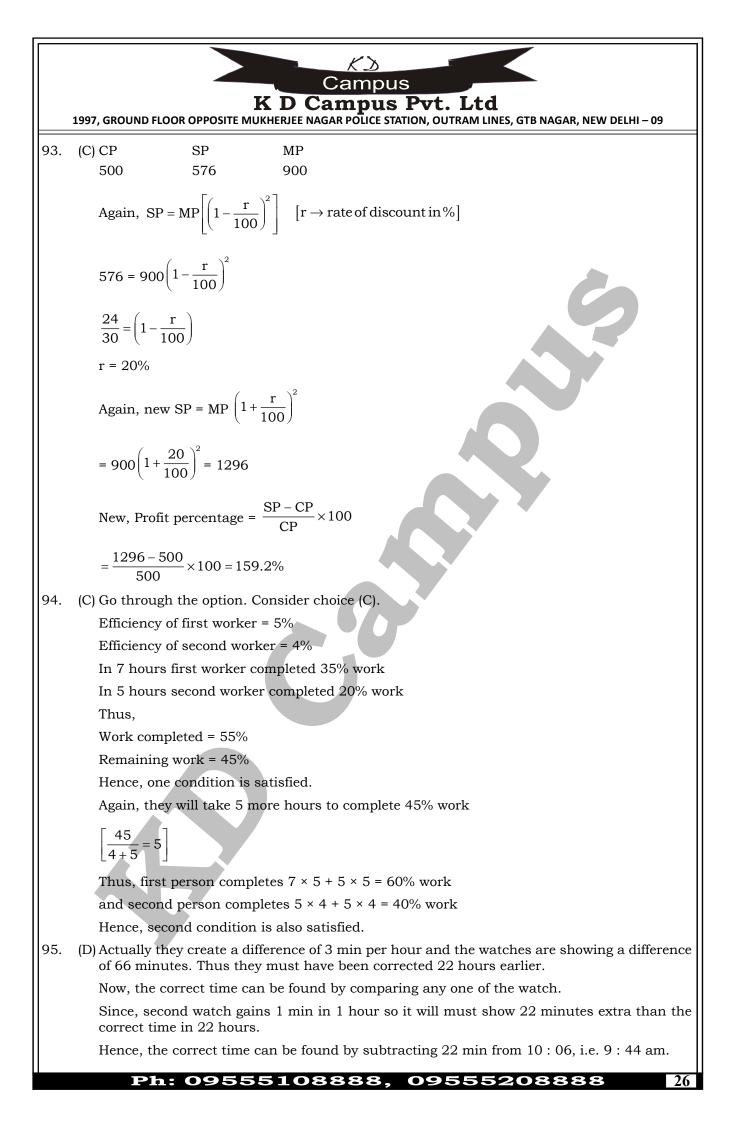


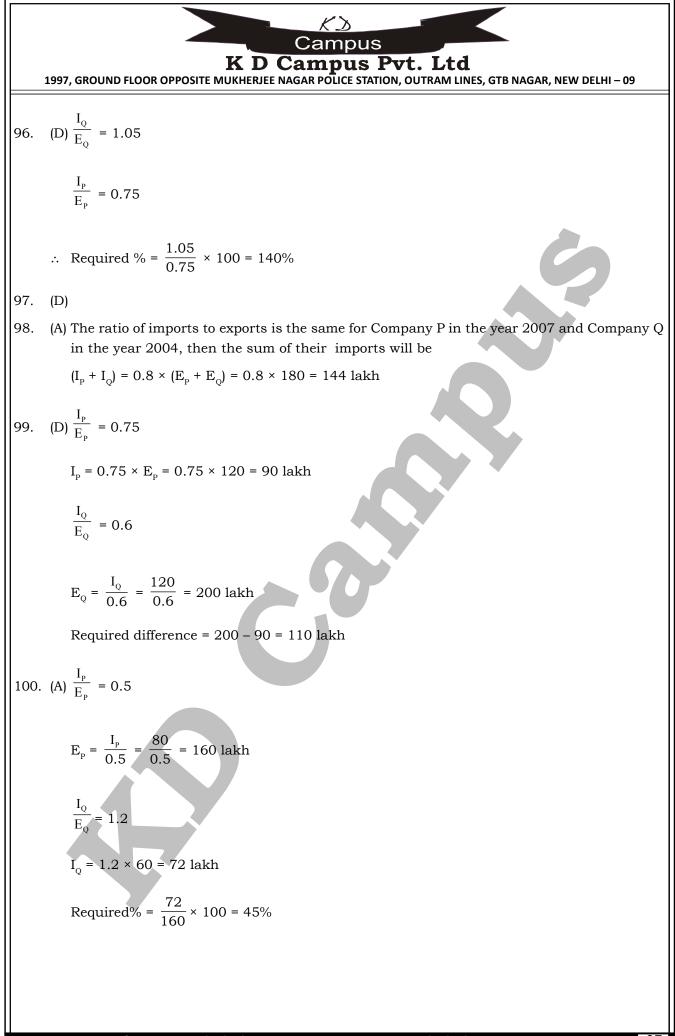






EXAMPLE PV1. L13
EVALUATE:
INSERT OF CONSISTENT MIXING AND ALL STATION, OUTRAMINES, GTB MAGAR, NEW DELHI - 09
S7. (C) Sum - 5.4 ×
$$\frac{8}{100}$$
 + 8.6 × $\frac{18}{100}$ - 0.432 + 1.548 - 1.98 lakh
S8. (D) Total number of vacancies in 2010 = $\frac{48000 \times 100}{6}$ = 800000
 \therefore Vacancies in city B = 20% of 800000 = 1.60000 = 1.60 lakh
S9. (A) C₂₀₀₀ = 5.4 × $\frac{10}{100}$ = 0.54 lakh
 C_{2010} = 8.6 × $\frac{8}{100}$ = 0.688 lakh
 \therefore % rise = $\left(\frac{0.688 - 0.54}{0.54}\right) \times 100 = 27.407\% \approx 27.41\%$
90. (B) The total score of 3 toppers = 123 × 120 - 120 × 118.5 = 540
The highest possible score of the third highest topper is possible when the score of other two
toppers was minimum.
S0,
 Γ^{α} rankers score = 187 (minimum)
 $2^{\alpha \alpha}$ rankers score = 186 (minimum)
 $3^{\alpha \alpha}$ rankers score = 186 (minimum)
 $3^{\alpha \alpha}$ rankers score = 187 (minimum)
 $2^{\alpha \beta}$ rankers score = 187 (minimum)
91. (B) Here the ratio of mixtures [ite, milk and water] does not matter. But the important point is
that whether the total amount (letter pure or mixture) being transferred is equal or not.
Since the total amount (ite. 5 cups) being transferred from each one to another.
Hence A = B
92. (B) Let the percentage marks in Reasoning = (10 b + a)%
Let the percentage marks in Reasoning = (10 b + a)%
Let the percentage marks in English = x%
ATQ:
 $\frac{(10a + b) + x + (10b + a)}{3} = x$
 $11a + 11b + x = 3x$
 $x = \frac{11}{2}(a + b)$
Thus the percentage of the English section is a multiple of 11, i.e. 66%.





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 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09

QUANTITATIVE ABILITY - 76 (ANSWER KEY)

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