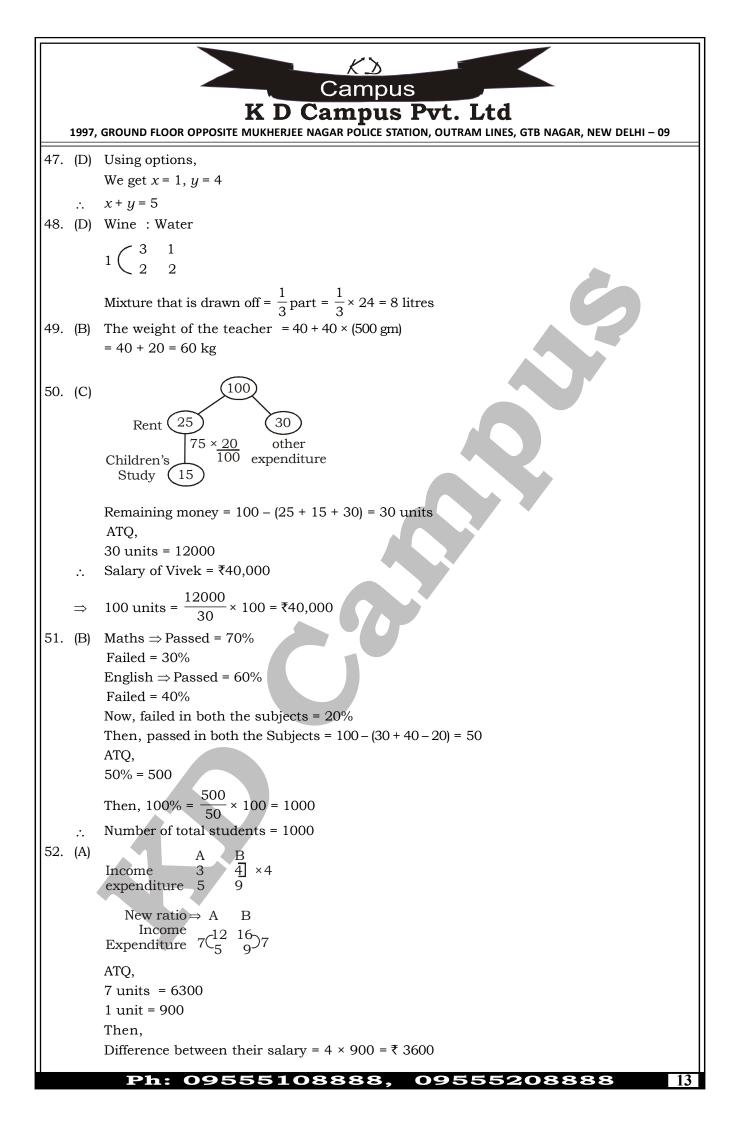
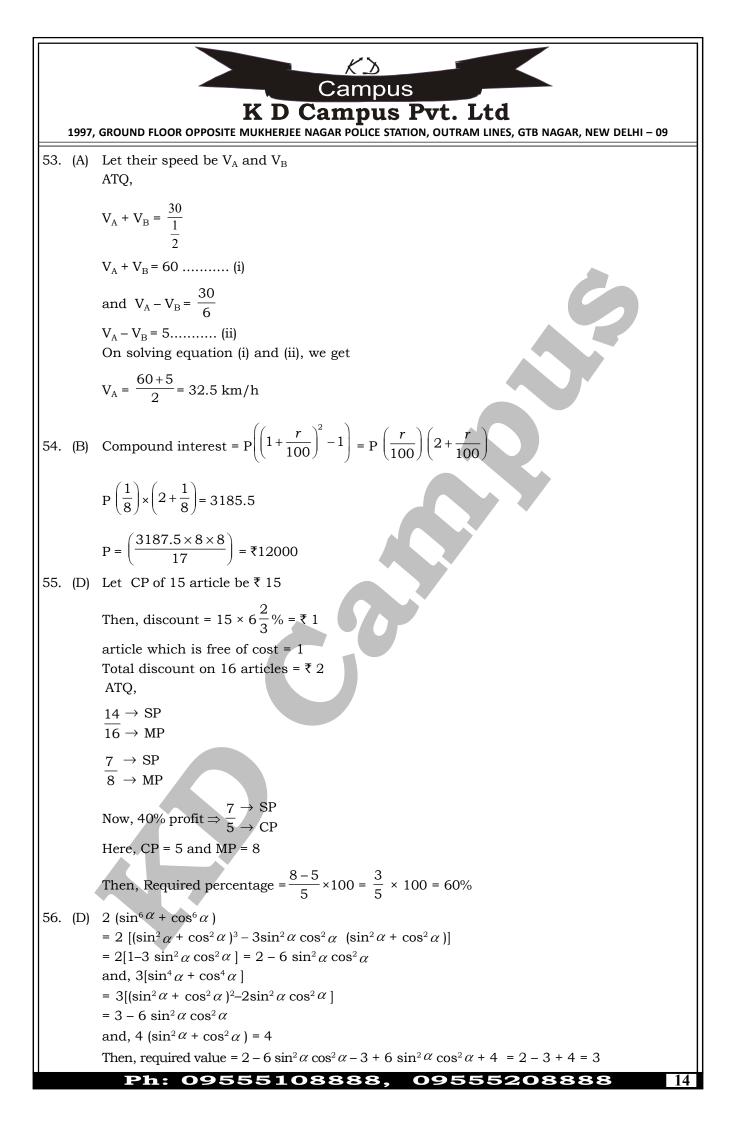
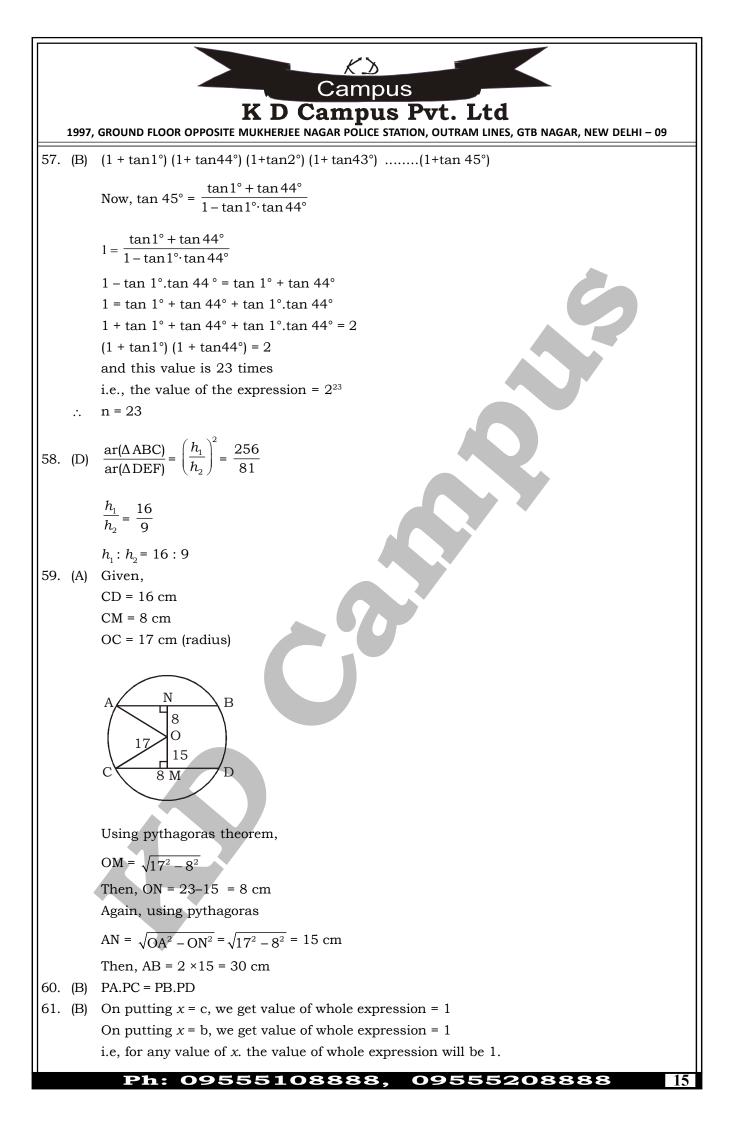
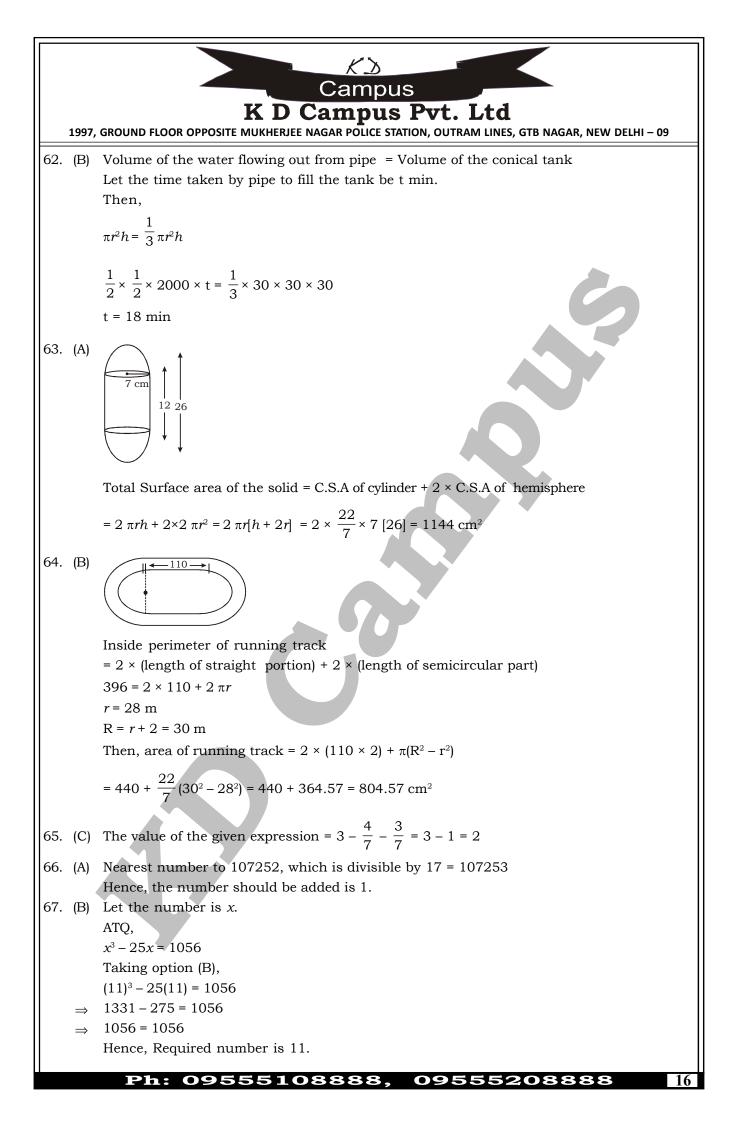


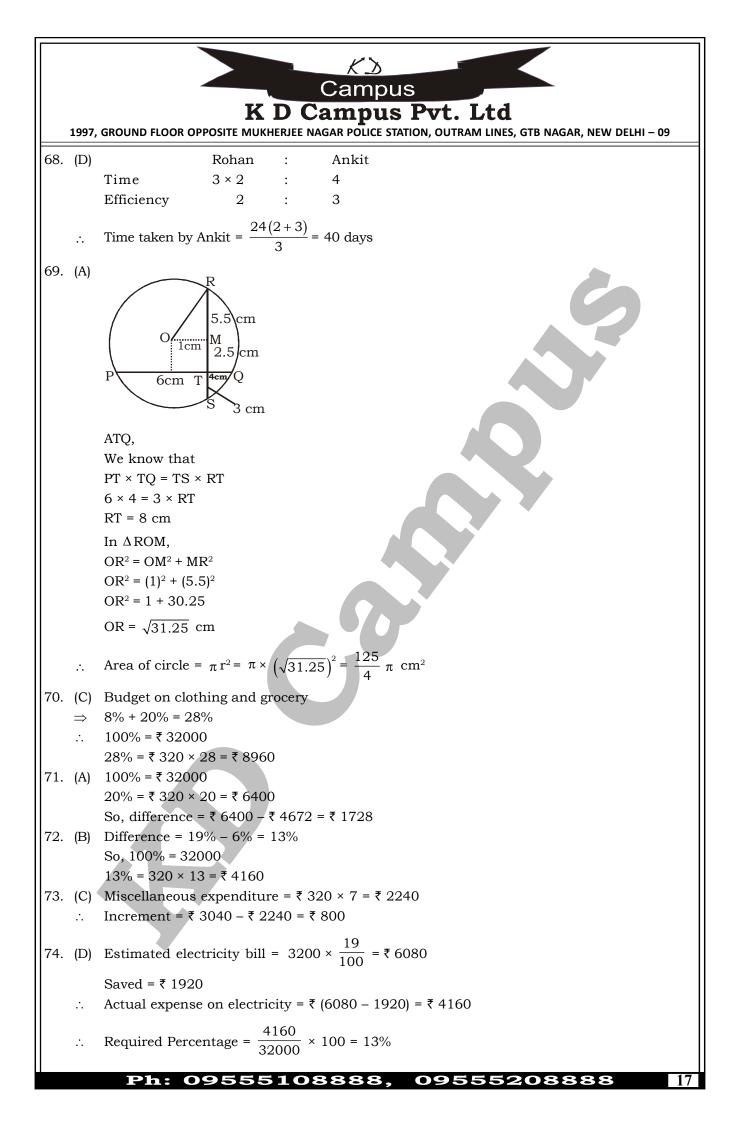
EXAMPLE 197. GROUND FLOOR OPPOSITE MURRER MAGAR POLICE STATION, OUTRAM LINES, GTB MAGAR, NEW DELHI- 69
42. (C)
$$a = (\sqrt{3} + \sqrt{2})^{-3}$$
,
 $b = (\sqrt{3} - \sqrt{2})^{-3}$,
 $a \times b = [(\sqrt{3} + \sqrt{2})(\sqrt{3} - \sqrt{2})]^{-3} = [3 - 2]^{-3} - (1)^{-3} = 1$
 $- (a + 1)^{-1} + (b + 1)^{-1} - \frac{1}{a + 1} + \frac{1}{b + 1}$
 $- \frac{b + 1 + a + 1}{a + b + 2}$ [.: $ab = 1$]
 $= 1$
43. (B) ILCP of 36 and 40 = 4
Then,
Pieces of pipe of length 36 m $= \frac{36}{4} = 9$
and, pieces of pipe of length 40 m $= \frac{40}{4} = 10$
Now, total pieces $= 9 + 10 = 19$
44. (A) 5 times the quotient = 8 times the remainder
So, quotient $= \frac{8 \times 35}{5} = 56$.
We know that,
Dividend = divisor × quotient + Remainder
 $= 5 \times 56 \times 56 + 35 = 15715$
45. (C) Remainder when 1352 is divided by 15 = 1
Remainder when 1353 is divided by 15 = 2
Remainder when 1353 is divided by 15 = 3
Then, required remainder $= 1 \times 2 \times 3 = 6$
46. (B) 25% loss $= \frac{3}{4} \to CP$
Profit $= \frac{4}{3} \to 2P$
 $A, T, Q,$
 $y \to x = 12, 5, \dots, (B)$
and, $4x + 3y = 720, \dots, (B)$
On asving we get,
 $3y = 330$ and $4x = 390$
 \therefore cost of pipe of lower priced article $= 3y = \sqrt{330}$

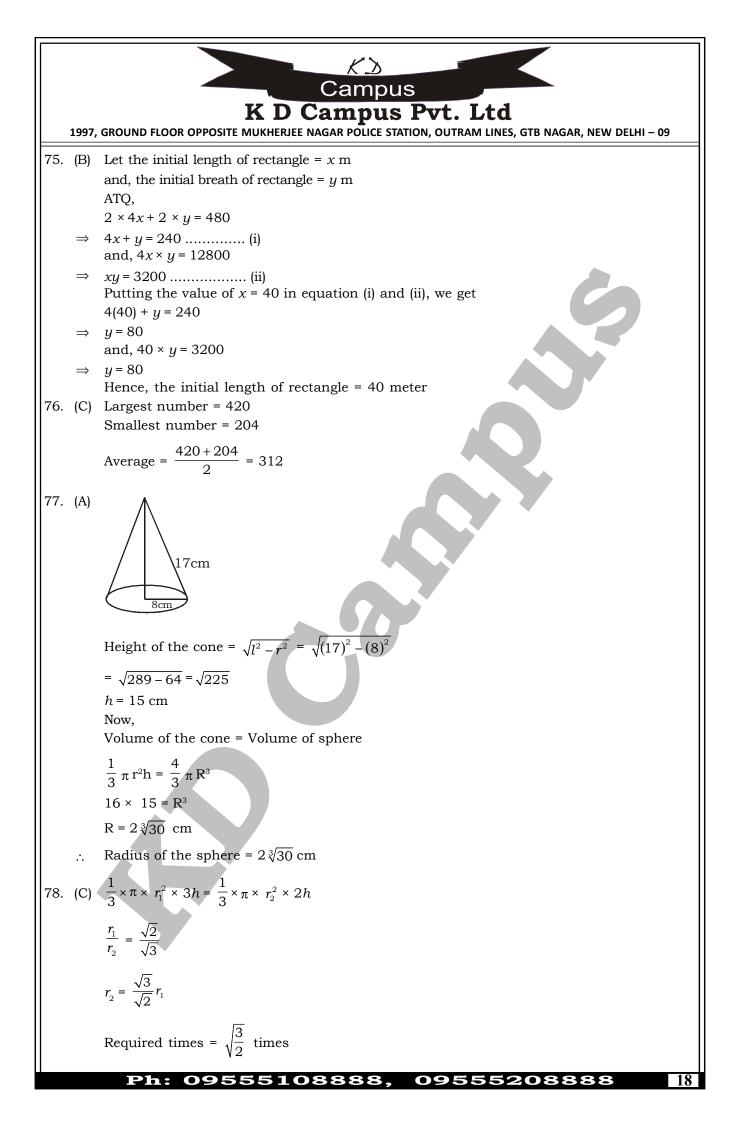


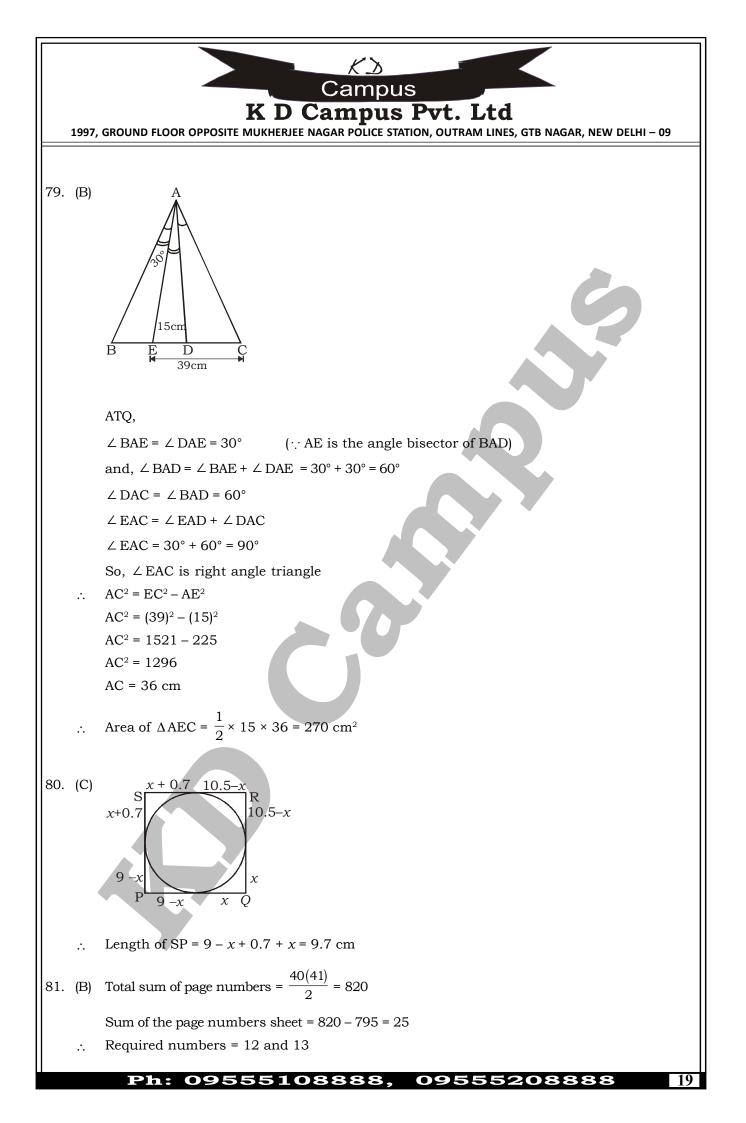


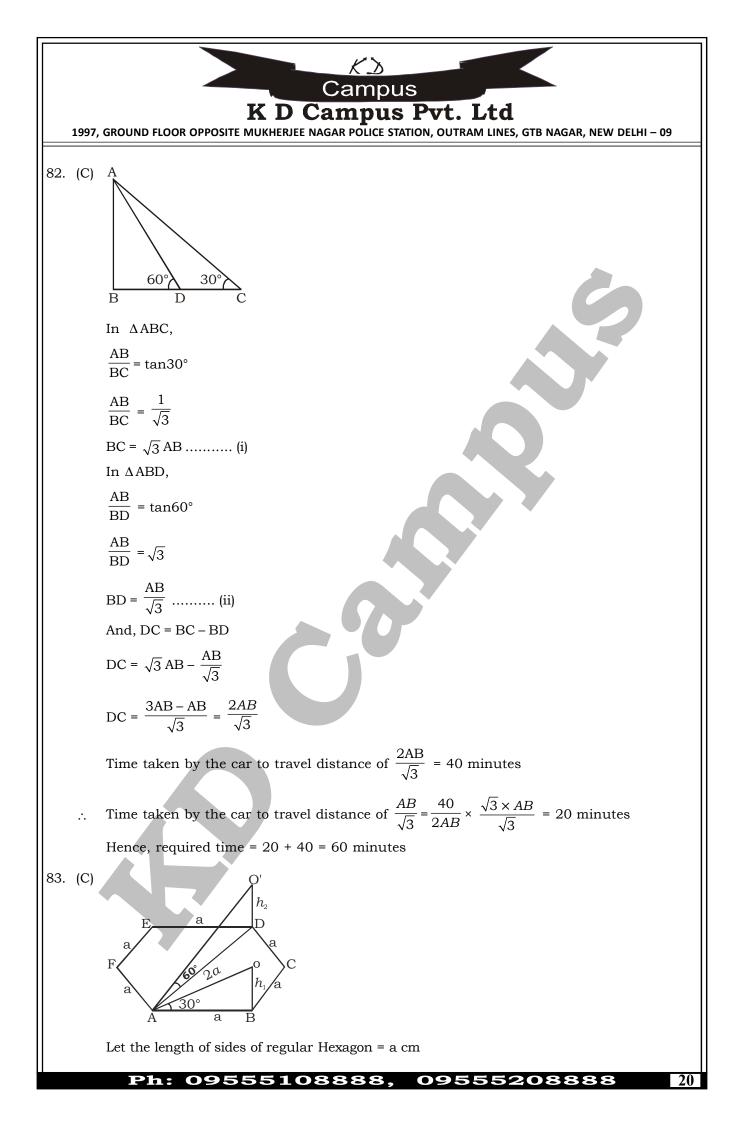


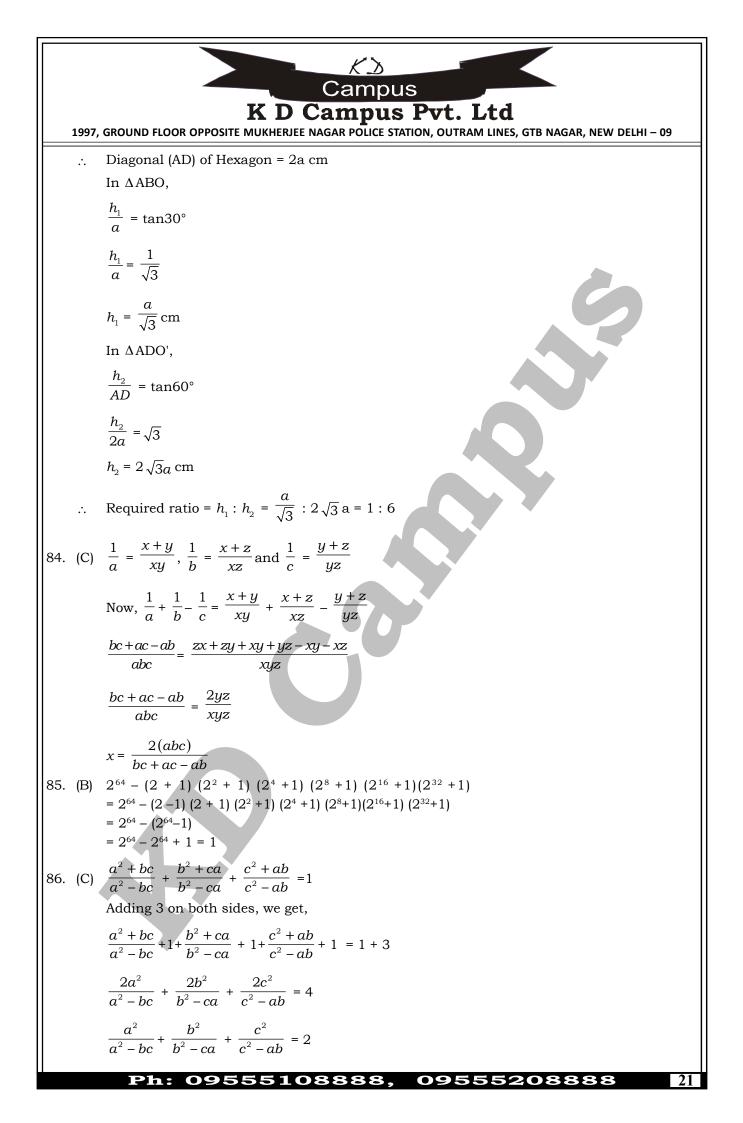


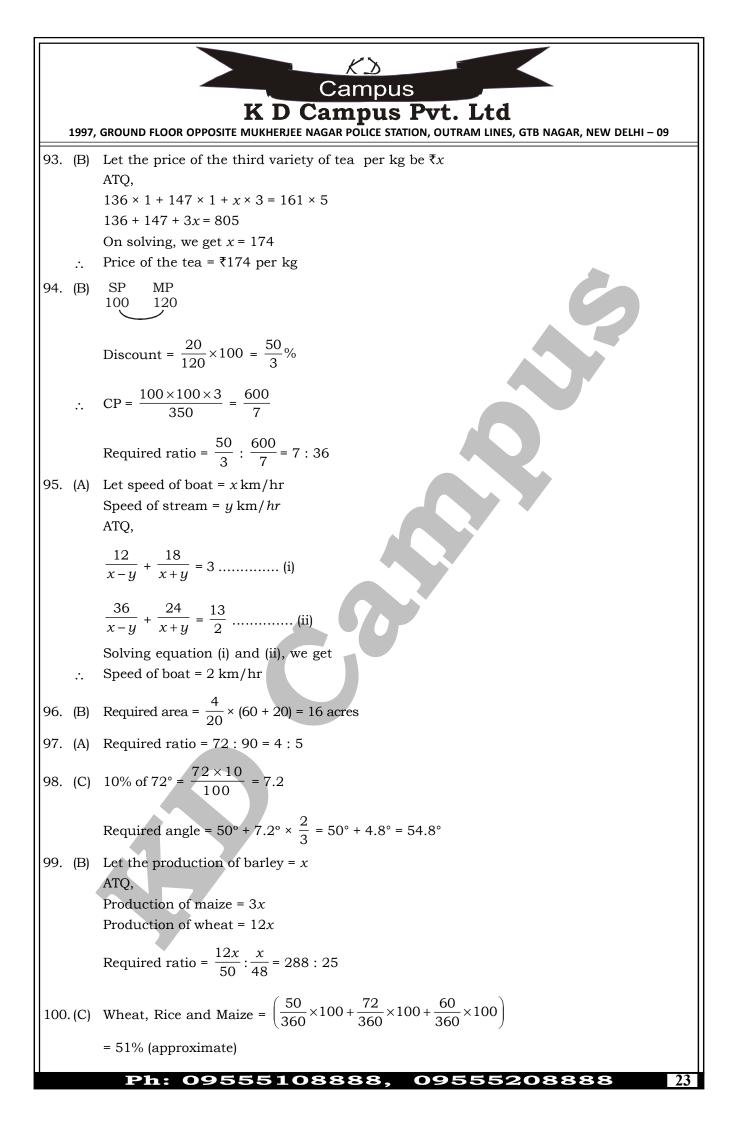












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 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09

QUANTITATIVE ABILITY - 87 (ANSWER KEY)

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

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