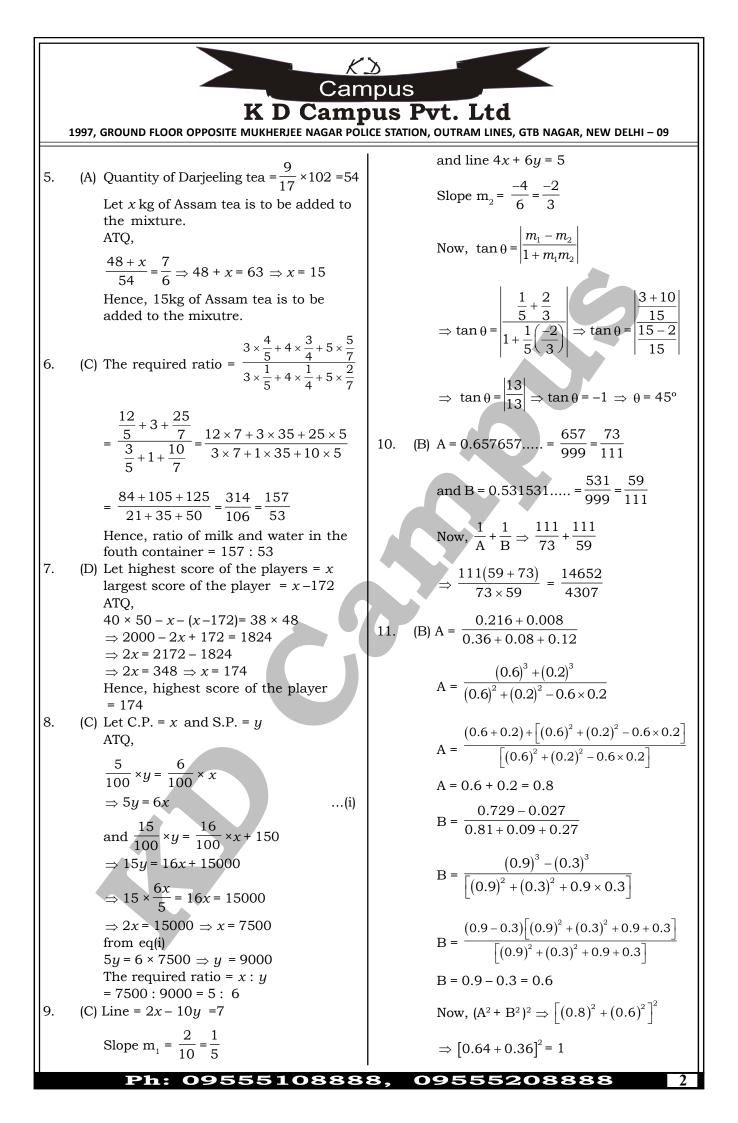
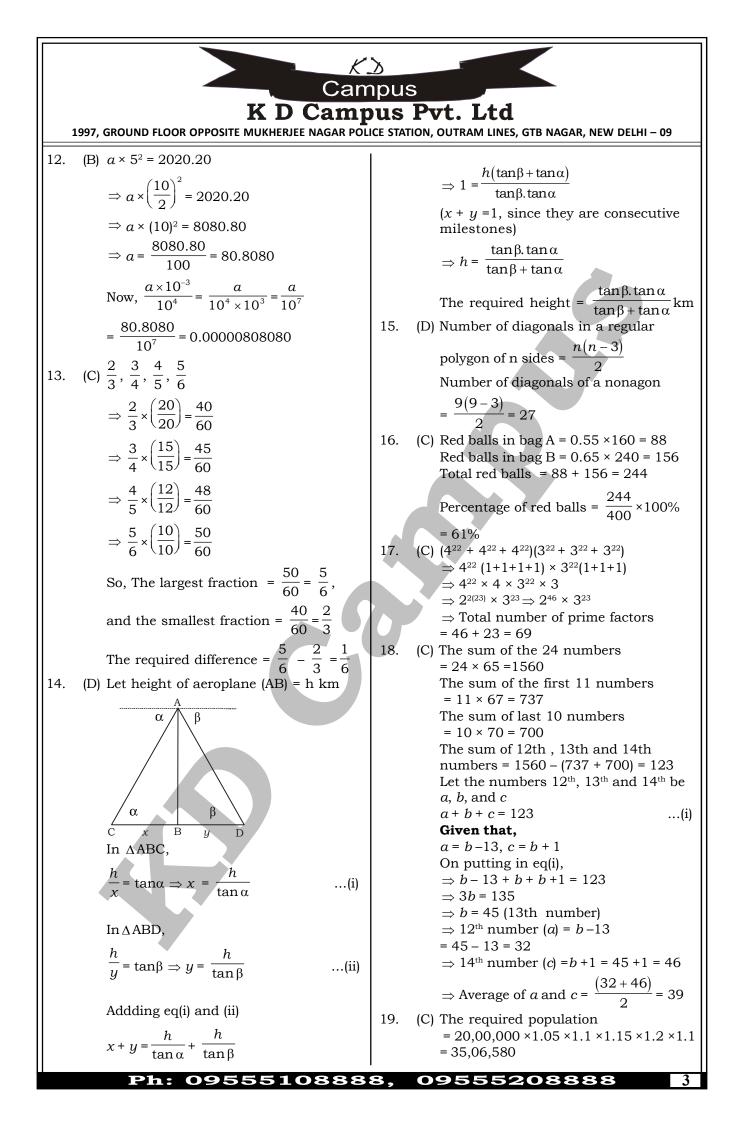
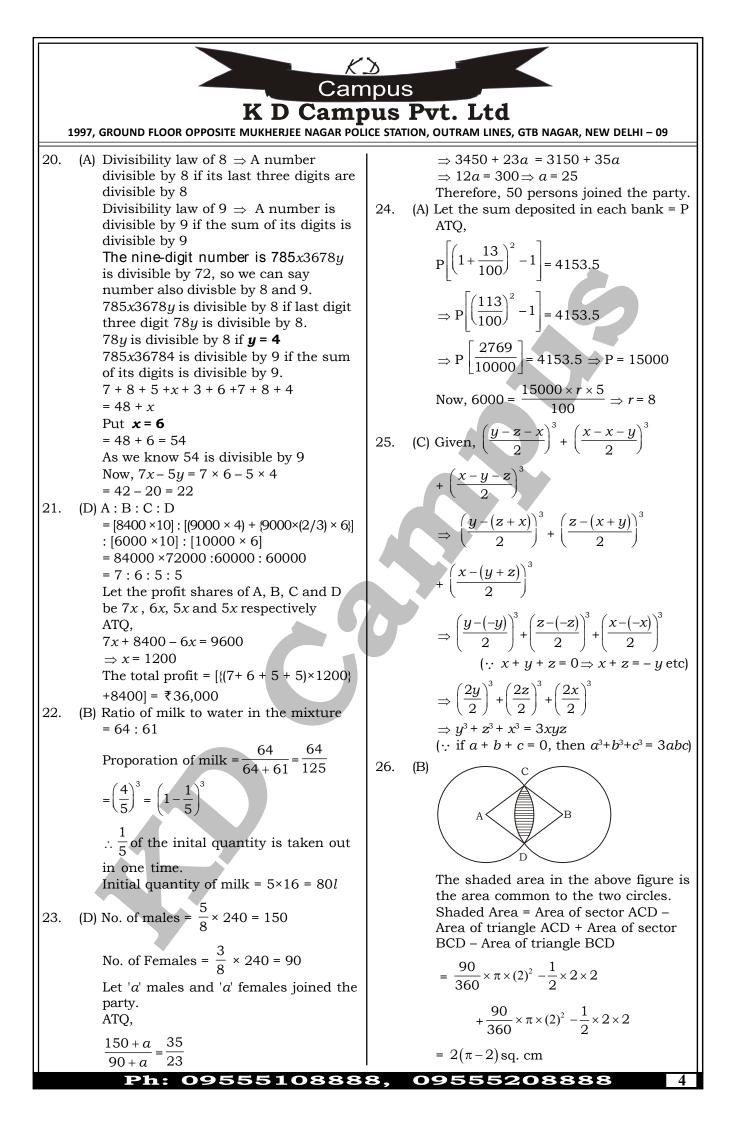
KX Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI – 09 TEST NO. SSC TIER-II : QUANTITATIVE ABILITIES 58 (Answer with Explanations) Answer Key (D) 41. (A) 61. 1. (C) 21. (A) 81. (B) 22. 2. (A) (B) 42. (B) 62. (A) 82. (C) 3. 23. 43. (C) 63. 83. (B) (D) (D) (A) 4. 24. (C)44. (C) 64. (D) 84. (A) (A) 5. (A) 25. (C)45. (C) 65. (C)85. (C)6. (A) (C) 26. (B) 46. 66. (A) 86. (D) 7. (D) 27. 47. (B) 67. (A) 87. (B) (A) 28. 8. (C) (D) 68. 88. (C)48. (A) (D) 29. 9. (C) (C) 49. (A) 69. (C)89. (B) (D) 10. 30. 70. 90. (B) 50. (B) (D) (A) 11. (B) 31. (A) 51. (A) 71. (B)91. (D) 12. (B) 32. (D) 52. (A) 72. (B) 92. (B) 13. (C)33. 53. (A) 73, 93. (D) (D) (A) 14. (D) 34. (C)54. (C) 74. 94. (C) (A) (C) 15. (D) 35. 55. (A) 95. (B) (D) 75. 96. 16. (C)36. (D) 56. (C)76. (A) (C)17. (C) 37. 57. (A) 77. (C) 97. (D) (C)38. 58. 98. 18. (C) (C) 78. (B) (D) (A) 19. 39. (B) 79. 99. (C)(B) 59. (C)(D) 20. 40. (C) 60. (D) 80. (A) 100. (C)(A) Answer key with explanations (C) $2\frac{1}{3} + 3\frac{1}{4} + 4\frac{1}{5} + 5\frac{1}{6}$ C.P. = $\frac{17x}{20} \times \frac{100}{120} = \frac{17x}{24}$ 1. ATO. $\Rightarrow 2 + 3 + 4 + 5 + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6}$ S.P - C.P = 5100 $\Rightarrow \frac{17x}{20} - \frac{17x}{24} = 5100$ $\Rightarrow 14 + \frac{20 + 18 + 12 + 10}{60}$ $\Rightarrow 14 + \frac{57}{60} \Rightarrow 14 + \frac{19}{20}$ $\Rightarrow \frac{17x}{20} \times \frac{4}{20 \times 24} = 5100$ $\Rightarrow x = 36000$ The required number $=1-\frac{19}{20}=\frac{1}{20}$ Hence, advertised price = ₹36000 4. (C) A : B = 3 : 4 and B : C = 5 : 92. (A) Given that r = 60divisior (d) = $6 \times 60 = 360$ С А В quotient (q) = $\frac{360}{8}$ = 45 3 4 4 9 5 5 $Dividend(D) = divisior(d) \times quotient(q)$ + reminder (r) 15 : 20 : 36 \Rightarrow D = 360 × 45 + 60 \Rightarrow D = 16200 + 60 = 16260 B's share = $\frac{20}{(15+20+36)}$ = 1065 Hence, Dividend (D) = 16260(B) Let advertised price = $\mathbb{E} x$ 3. = $\frac{20}{71}$ ×1065 = ₹300 S.P. = $x \times \frac{85}{100} = \frac{17x}{20}$

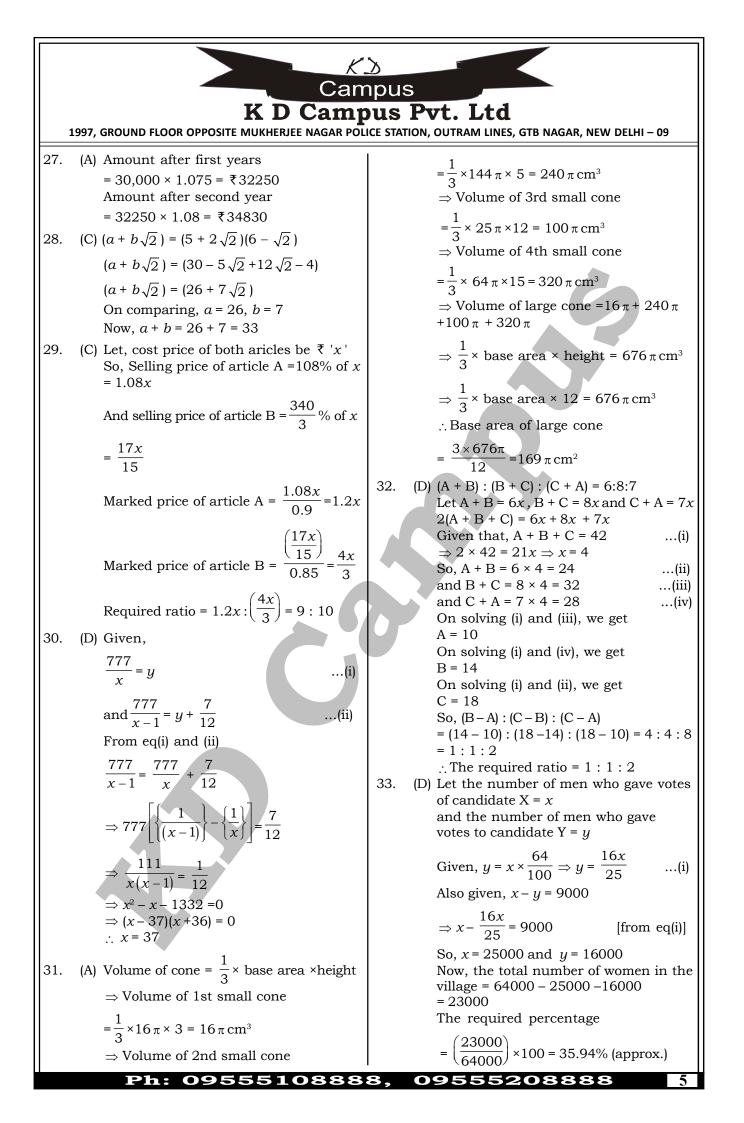
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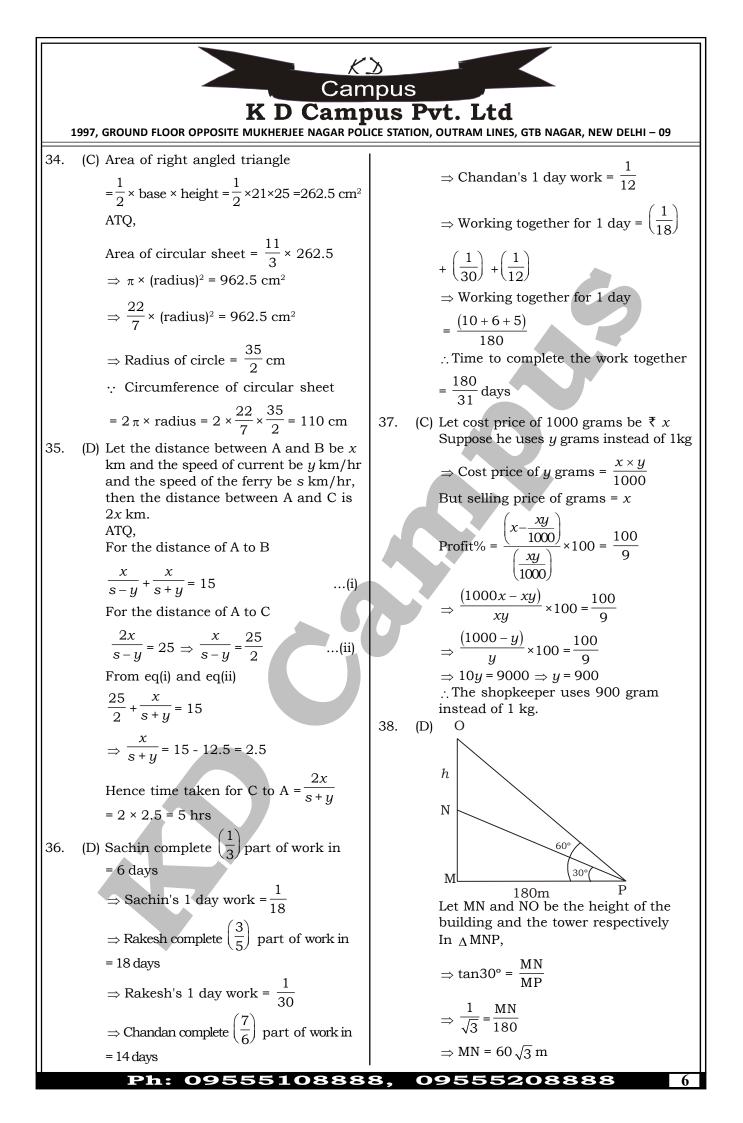
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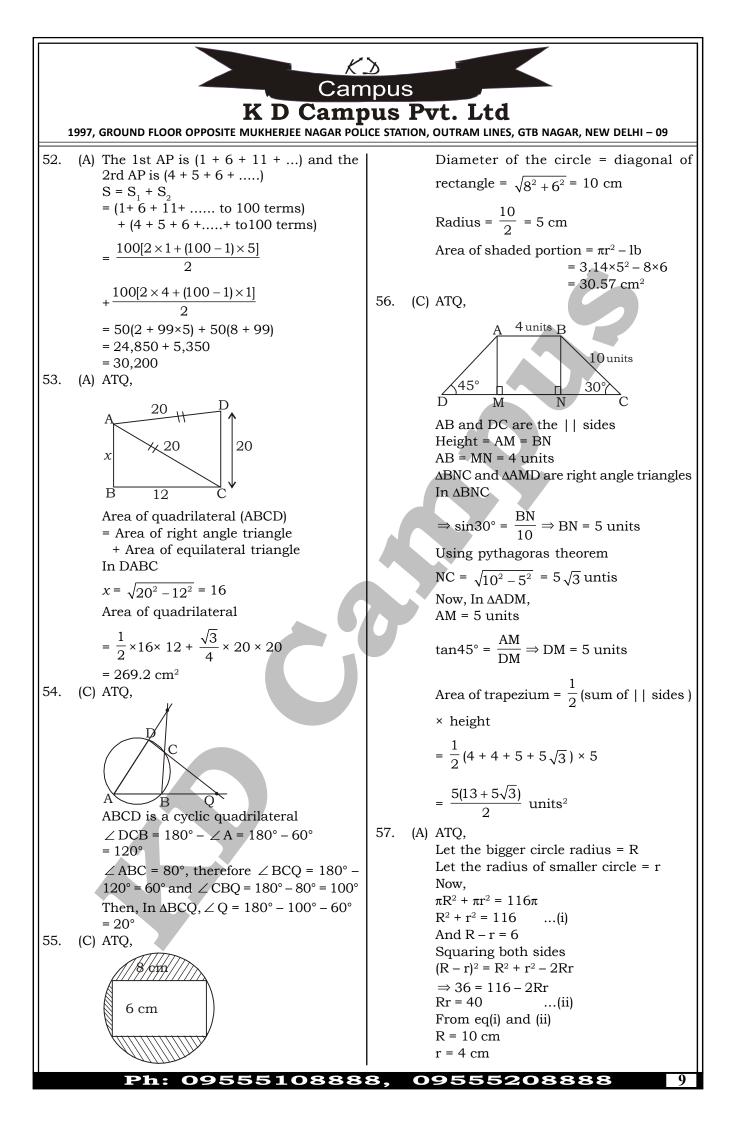


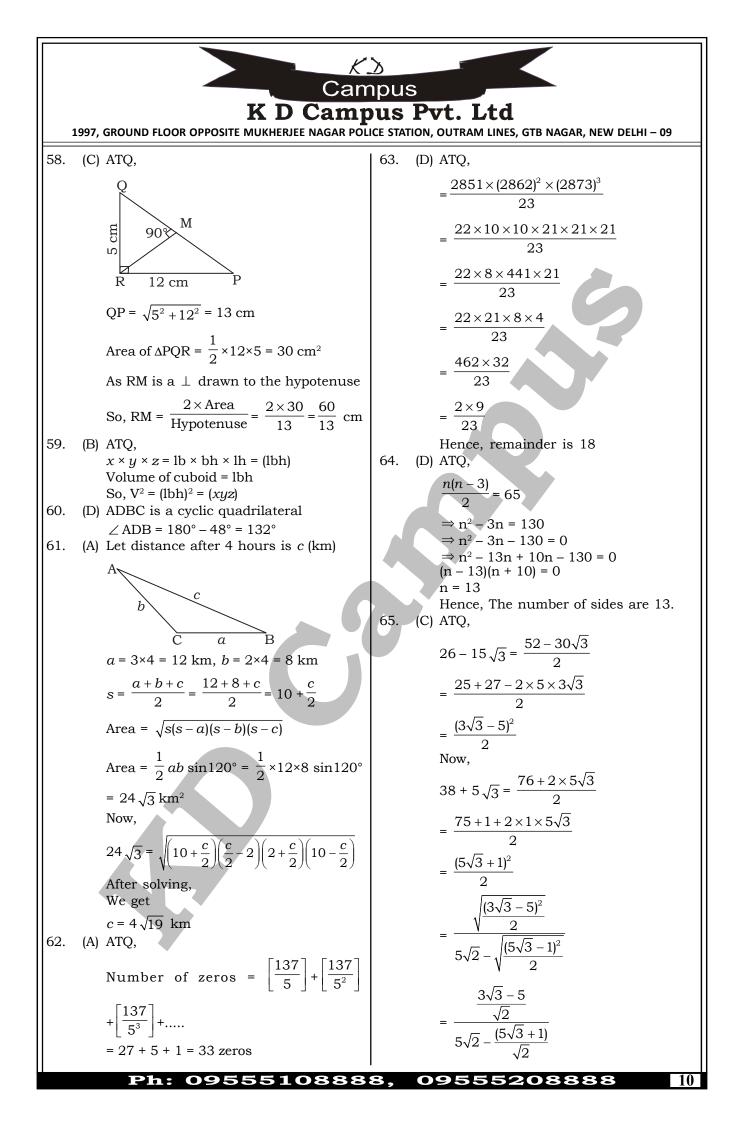
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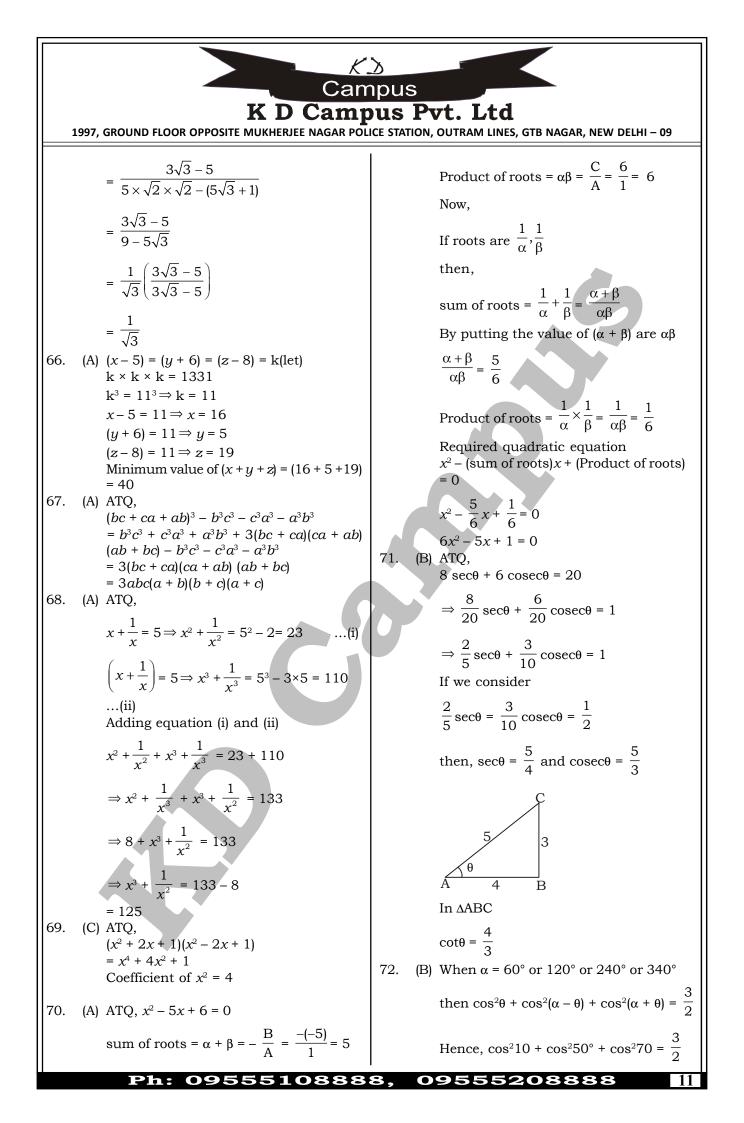
$$\Rightarrow \tan 60^{\circ} = \frac{MO}{MP} \Rightarrow \sqrt{3} = \frac{MN + NO}{180}$$

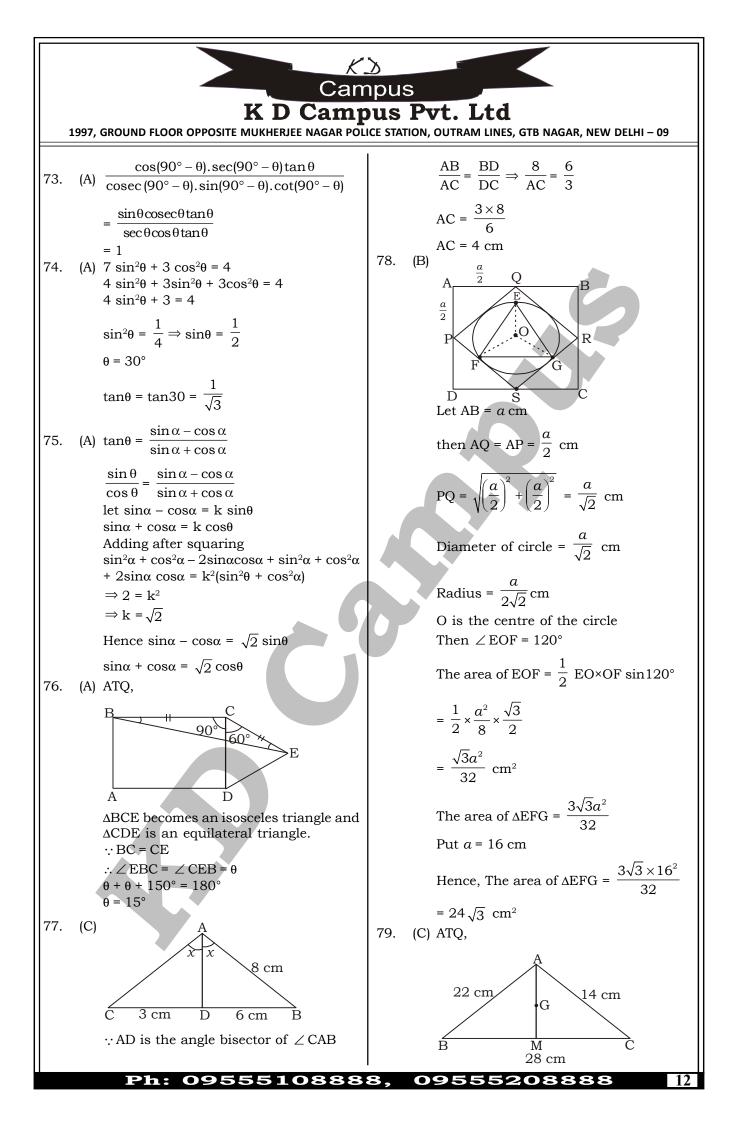
 $\Rightarrow MN + ON = 180\sqrt{3}$
 $\Rightarrow 00 \sqrt{3} + h = 180\sqrt{3}$
 $\Rightarrow 00 \sqrt{3} + h = 180\sqrt{3}$
 $\Rightarrow h = 180\sqrt{3} - 60\sqrt{3} \Rightarrow h = 120\sqrt{3}$
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 $\Rightarrow S. P. = \frac{6}{7} \times a = \frac{6\alpha}{7}$
Cost price of the article = 7320
Profit percentage - 25%
 \Rightarrow Selling price of the article
 $= \left[1 + \frac{25}{100}\right] \times 320 = 7400$
Art Q. $\frac{6a}{7} = 400 \Rightarrow a - \frac{(400 \times 7)}{6}$
 $\Rightarrow a - 466.66$
40. (C) A. Trapezium doesn't have equal
 $proposite$ angles.
 $\therefore Parallelogram he upus opposite
 $\therefore AB = 5cm, AC - \sqrt{4}] cm and BC = 8cm$
 $\therefore BD = 5\pi \frac{3}{5} = 3cm$
 $\therefore AD = 4cm (Pythagoras theorem)$
 $\therefore Area of ABD = \frac{1}{2}x4x3 = 6cm^2$
44. (C)
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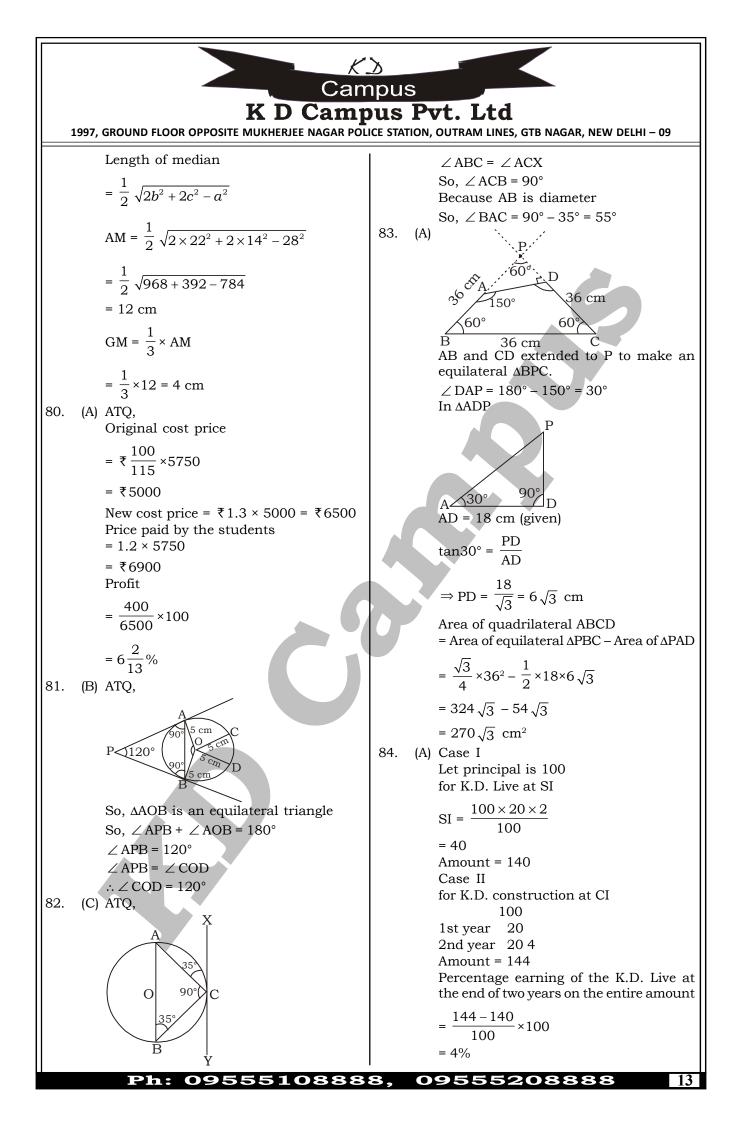
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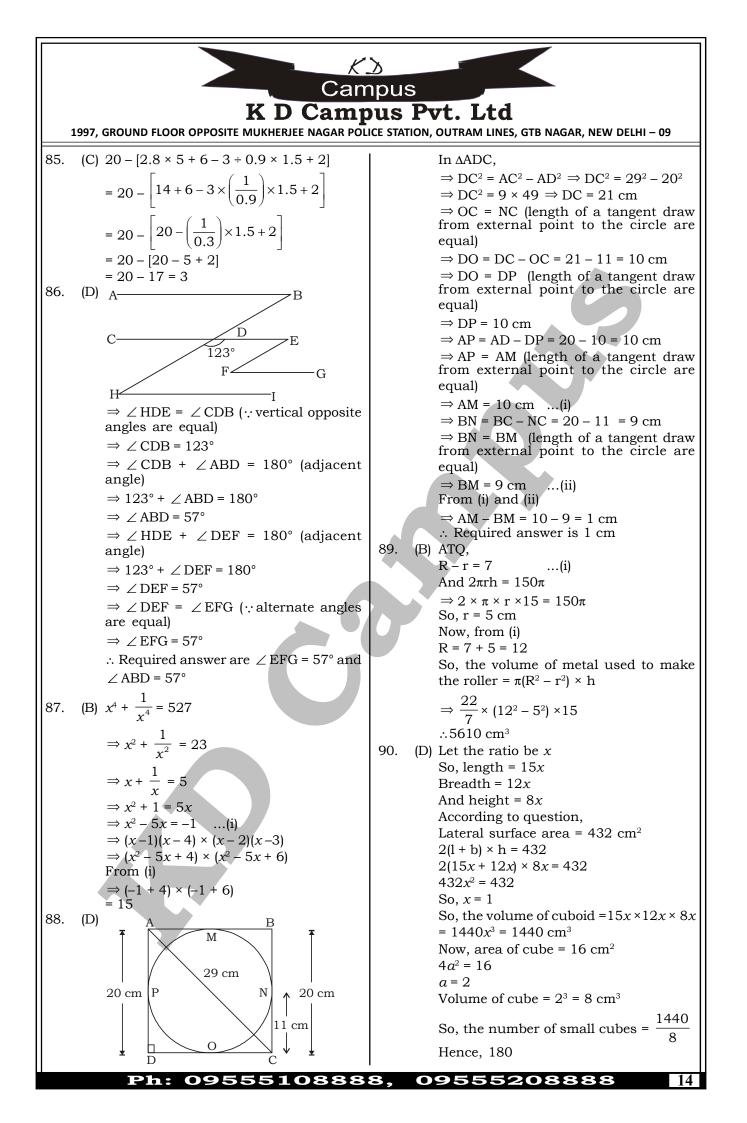


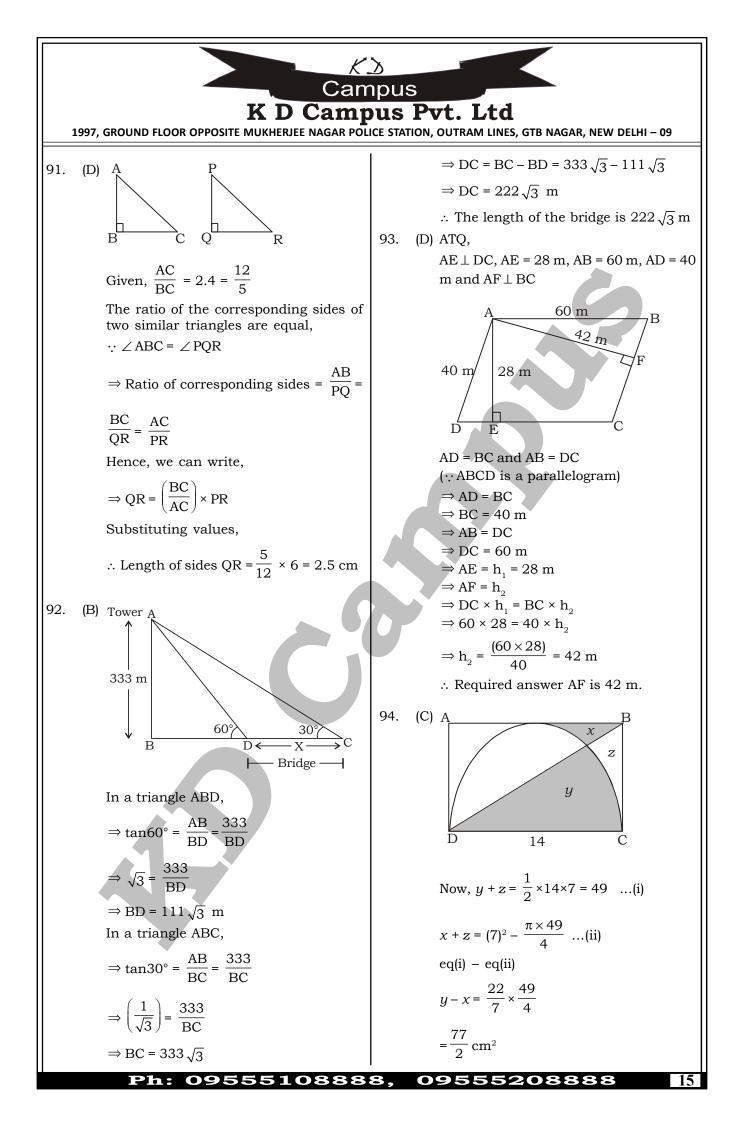


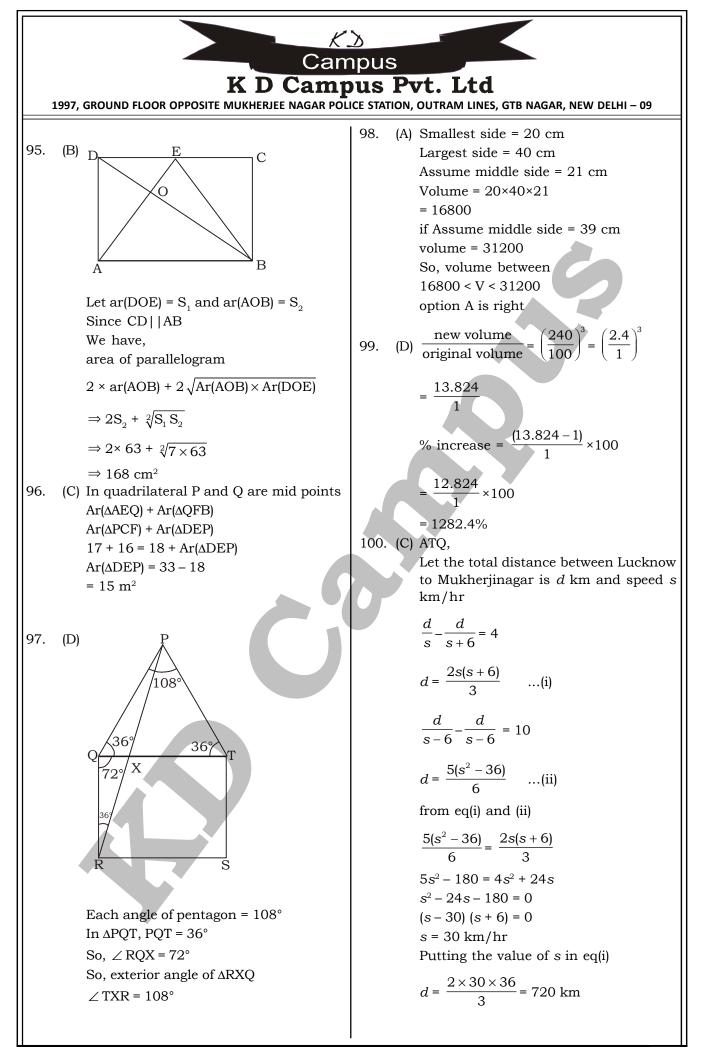












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