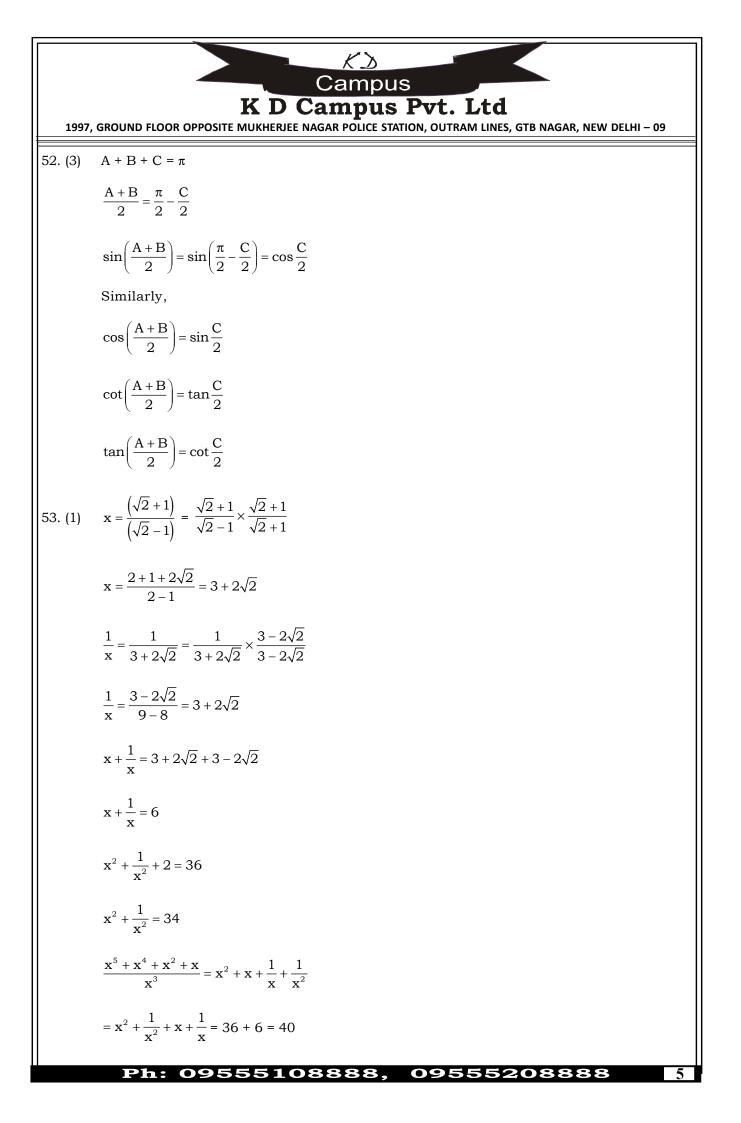


$$= \frac{1}{4} \times \frac{\sqrt{3}}{4} \times (12)^2 = \frac{1}{4} \times \frac{\sqrt{3}}{4} \times 144 = 9\sqrt{3} \text{ cm}^2$$

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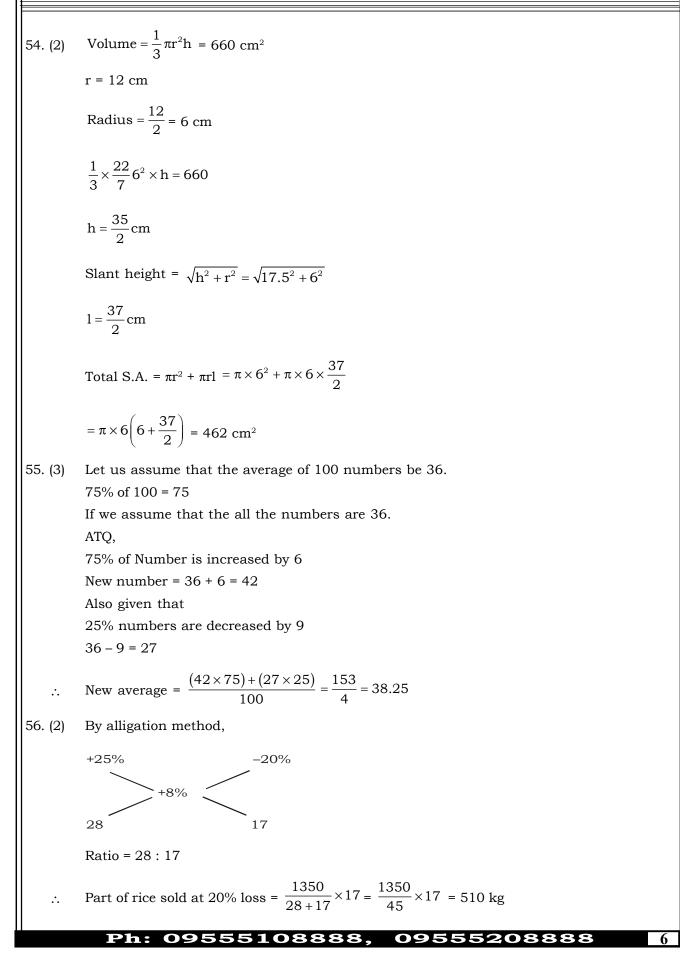
4

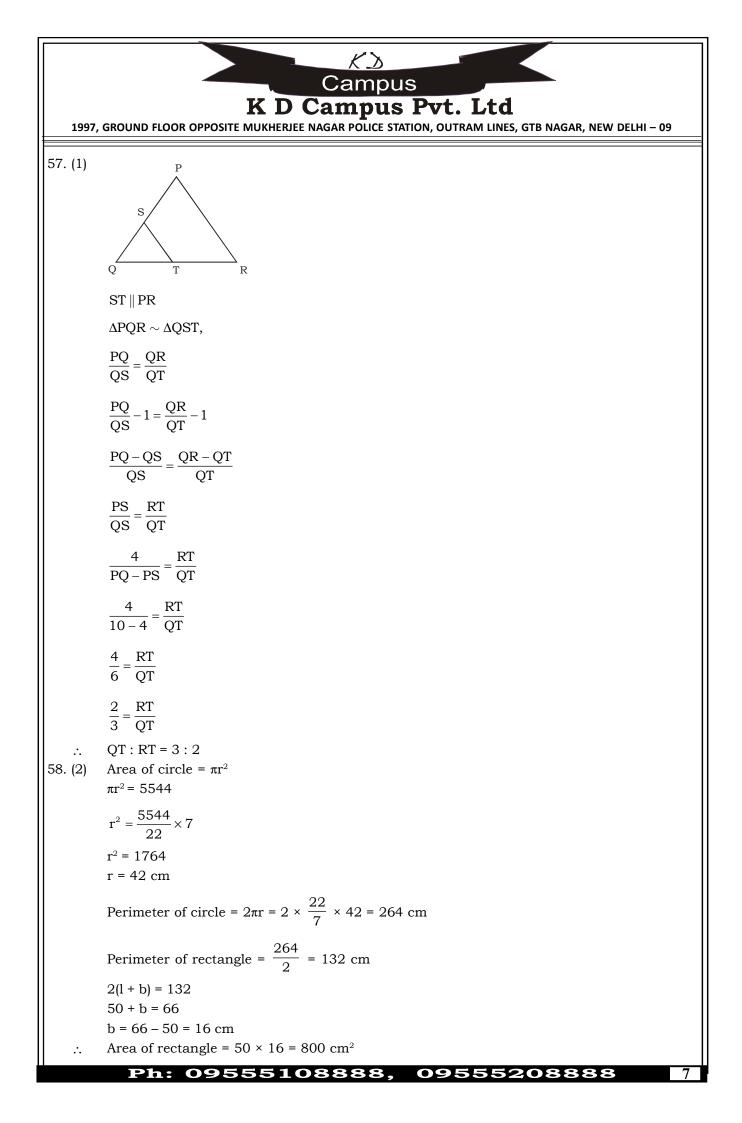


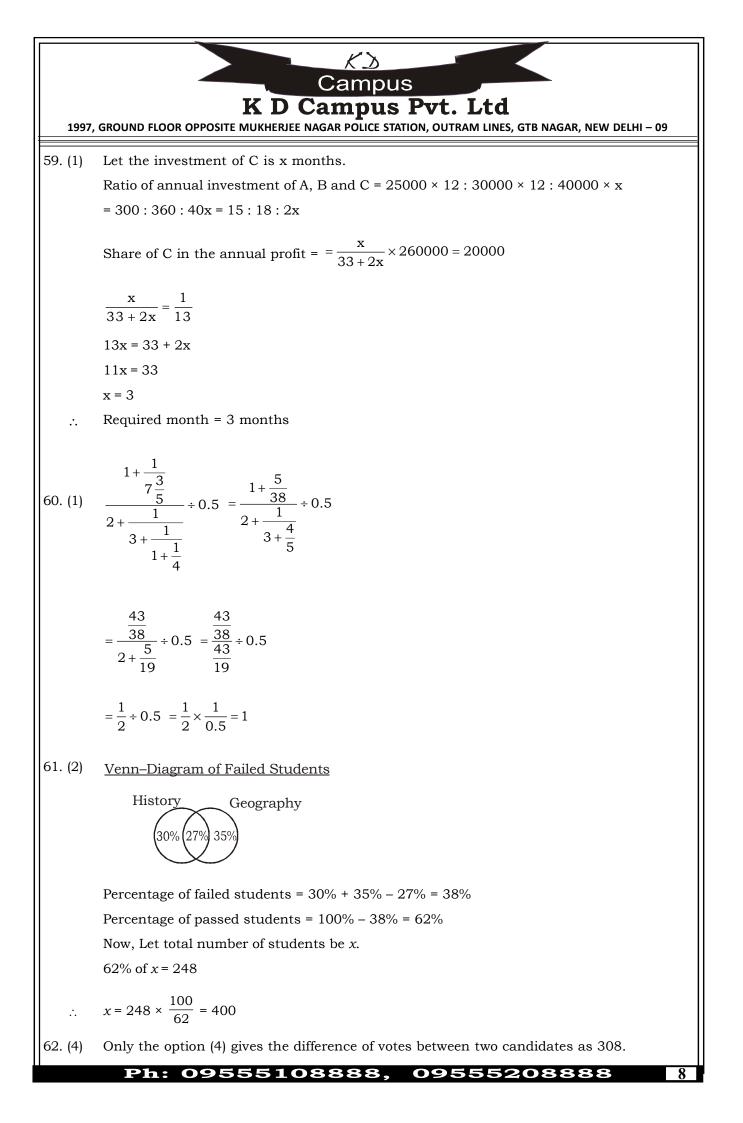
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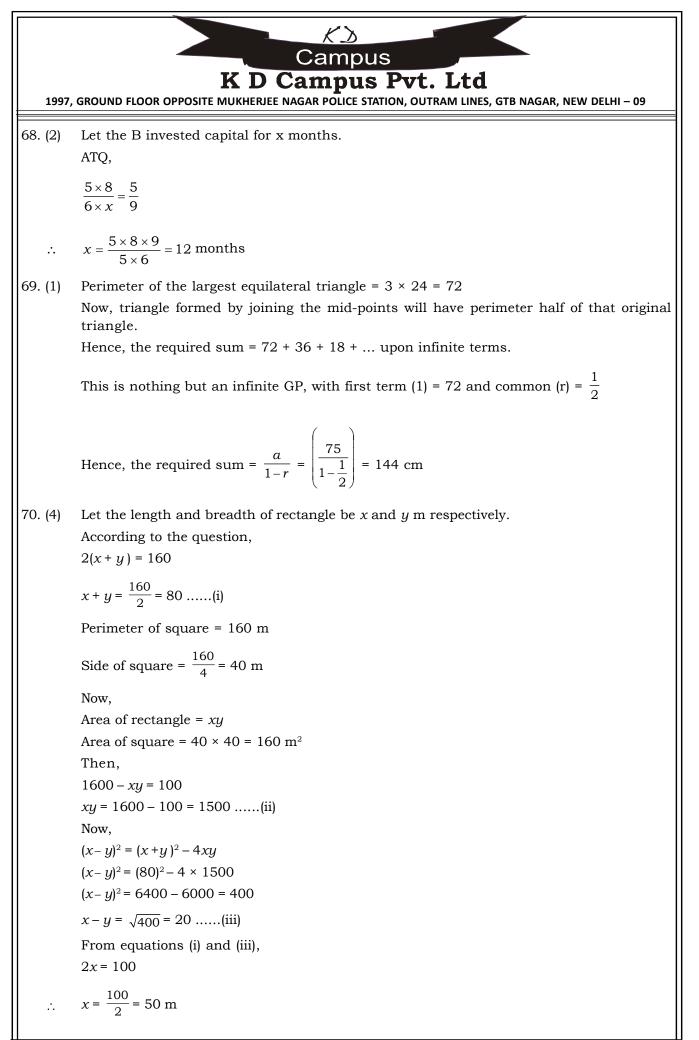
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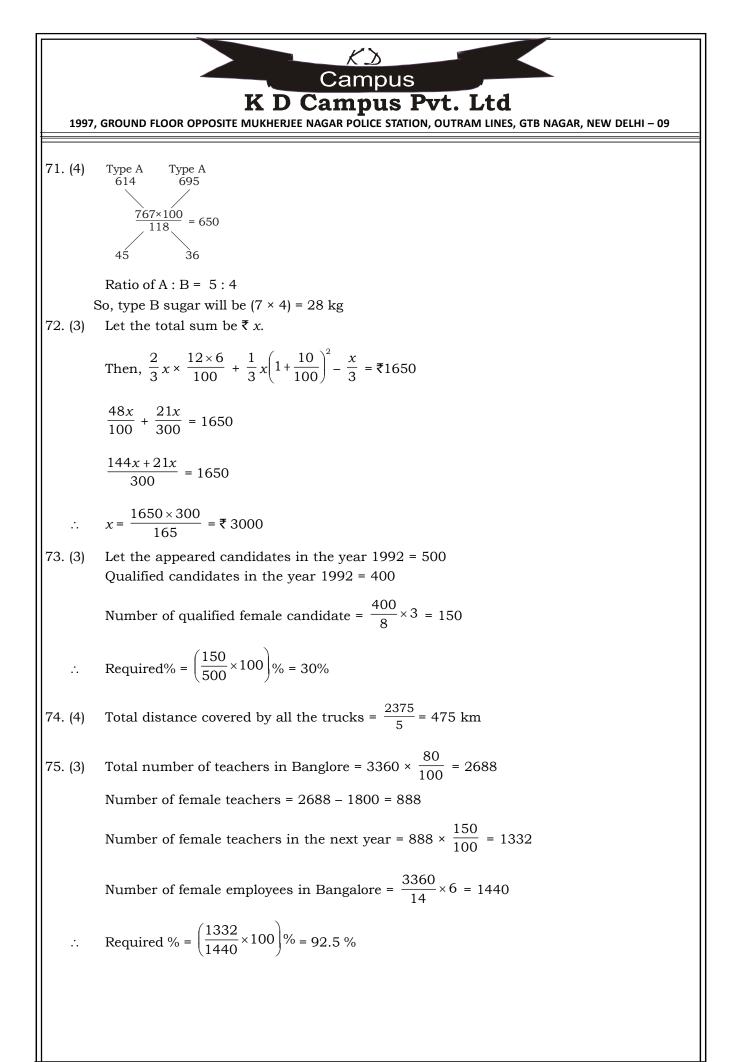






Campus K D Campus Pvt. Ltd 1997, GROUND FLOOR OPPOSITE MUKHERJEE NAGAR POLICE STATION, OUTRAM LINES, GTB NAGAR, NEW DELHI - 09 63. (1) Let the first train be X which leaves Delhi at 10:00 AM and second train be Y which leaves Delhi at 10 : 30 AM. Speed of train A = 110 km/hrSpeed of train B = 150 km/hrDistance covered by train A in 30 minutes = $110 \times \frac{30}{60}$ = 55 km At 10:30 AM, distance between both the trains = 55 km Relative speed of train B = 150 - 110 = 40 km/hrTime taken by train B to meet train A = $\frac{55}{40}$ hours = $\frac{11}{8}$ hours Distance covered by train B in $\frac{11}{8}$ hours = $\frac{11}{8} \times 150 = 206.25$ km 206.25 km from Delhi will both the trains meet. 64. (3) Simple interest = ₹7650 Time = 3 years Rate = 6%P = $\frac{7650 \times 100}{3 \times 6}$ = ₹42500 Now, principal = ₹42500 Time = 3 years Rate = 12% $A = 42500 \left(1 + \frac{12}{100}\right)^3$ = 42500 × $\frac{112}{100}$ × $\frac{112}{100}$ × $\frac{112}{100}$ = ₹ 59709.44 Compound interest = 59709.44 – 42500 = ₹17209.44 *.*.. 65. (4) Total work = $6 \times 24 = 144$ Work done by 6 persons in 4 days = $6 \times 4 = 24$ Remaining work = 144 - 24 = 120 Required number of persons to complete the work in next 12 days = $\frac{120}{12}$ = 10 Number of persons should join the group = 10 - 6 = 4*.*.. Required number of poles = $\frac{\text{Perimeter}}{\text{Distance between any two adjacent poles}} = \frac{84}{1.5} = 50$ 66. (1) A makes one complete round of the circular track in $\frac{5}{5/2}$ = 2 hours 67. (3) B in $\frac{5}{3}$ hours and C in $\frac{5}{2}$ hours, That is after 2 hours A is at the starting point, B after $\frac{5}{3}$ hours and C after $\frac{5}{2}$ hours. Hence the required time = LCM of 2, $\frac{5}{3}$ and $\frac{5}{2}$ hours = $\frac{\text{LCM of } 2,5,5}{\text{HCF of } 3,2} = \frac{10}{1} = 10$ hours Ph: 09555108888, 09555208888





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MEANINGS IN ALPHABETICAL ORDER

Alimony	a husband's or wife's court-ordered provision	गुजारा-भत्ता	
	for a spouse after separation or divorce		
Aromatic	having a pleasant and distinctive smell	सुगन्धित	
Assassin	a murderer of an important person in a	हत्यारा	
_ ~	surprise attack for political or religious reasons	N	
Befit	be appropriate for	के अनुकूल	
Clad	clothed	कपड़े पहने हुए	
Commensurate	corresponding in size or degree; in proportion	(किसी वस्तु) के अनुरूप	
Condole	express sympathy for (someone)	दु:ख में हमदर्री दिखाना	
Console	comfort (someone) at a time of grief	सांत्वना देना	
	or disappointment		
Fable	a short story, typically with animals as	जानवरों के किरदारों वाली एक नीति	
	characters, conveying a moral	कथा	
Fiasco	a complete failure	असफलता	
Kleptomaniac	a person who cannot control their desire	वह व्यक्ति जो आमतौर पर अपनी	
	to steal things, usually because of a	चिकित्सीय स्थिति के कारण चीज़ों	
	medical condition	को चोरी करने की अपनी इच्छा	
		को नियंत्रित नहीं कर सकता हो	
Optometrist	A person who has a profession of	आँखों के लिए लेंस बनाने वाला	
	examining the eyes for visual defects		
	and prescribing corrective lenses		
Pantheist	one who practice a doctrine that equates	वह ब्रह्मांड की शक्तियों और उसके	
	God with the forces and laws of the universe	को भगवान मानता है	
Parsimony	extreme unwillingness to spend money or	मितव्ययिता	
	use resources		
Pedantic	showing much knowledge	पांडित्य पूर्ण	
Perennial	lasting or existing for a long or apparently	चिरस्थायी	
	infinite time		
Philanderer	a man who readily or frequently enters into	स्त्री लोलुप	
	casual sexual relationships with women		
Rhetoric	the art of effective or persuasive speaking	वाकपटु	
	or writing		
Tart	sharp or acid in taste	खट्टा	
Verbatim	in exactly the same words	शब्दश:	
Ph:	09555108888, 095552	208888 12	

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SSC MOCK TEST - 433 (ANSWER KEY)

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{ccccc} 76. & (D) \\ 77. & (A) \\ 78. & (A) \\ 79. & (D) \\ 80. & (C) \\ 81. & (B) \\ 82. & (D) \\ 83. & (D) \\ 83. & (D) \\ 84. & (C) \\ 85. & (C) \\ 85. & (C) \\ 86. & (C) \\ 87. & (C) \\ 88. & (B) \\ 89. & (C) \\ 90. & (B) \\ 91. & (C) \\ 92. & (A) \\ 93. & (C) \\ 94. & (B) \\ 95. & (B) \\ 95. & (B) \\ 95. & (B) \\ 96. & (C) \\ 97. & (B) \\ 98. & (C) \\ 99. & (C) \\ 99. & (C) \end{array}$
24. (3)	49. (4)	74. (4)	99. (C)
25. (3)	50. (2)	75. (3)	100. (A)

76. (D) No error

- 77. (A) 'Bacteria' is a plural noun, hence it is followed by a plural verb. Change 'is' into 'are'.
- 86. (C) Verb 'prefer' is followed by 'to'.
- 87. (C) No improvement. 'Taxes' is Third Person Plural Noun, therefore, 'they' should be used for it.
- 90. (B) The correct spelling of 'Optomatrist' is 'Optometrist'.
- 91. (B) The correct spelling of 'Perenial' is 'Perennial'.