

2007 CATalyst Education Group  
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## CATalyst Education Group :

CATalyst is a Unique group tuition program. It was created by Munira Lokhandwala with general idea of selecting a small group of students every year and training them to crack the mother of all entrance tests.

Rahul Vani and Bijoy Shah soon joined the group to give CATalyst a whole new dimension, so that maximum number of students benefit from CATalyst.

# Our CAT 2006 Results

Total Students : 28

IIM call getters : 9

**More than 33% CATalystians scored 99.xx%tile**

**Munira Lokhandawala teaches at CATalyst.**

**Who's Munira Lokhandawala:**

- 30 year old woman. Currently resides in Vashi
- Mathematics graduate, St. Xavier's, Class of 1997
- IIM Calcutta, Class of 1999
- Worked as CAT Product Head and Faculty, IMS, CL etc.
- Loves solving Maths Puzzles, dancing, bullet points
- 99.99%ile in CAT 2004, 100%ile in CAT 2005, 99.99%ile in CAT 2006

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SECTION I

1. 2 Cities within  $10^{\circ}$  E to  $40^{\circ}$  E are Vienna, Sofia, Tripoli, Warsaw and Lusaka. Of these, only Lusaka lies in Southern hemisphere, hence  $1/5 = 20\%$ .
  2. 4 There are 11 countries whose names begin with a consonant and are in the Northern Hemisphere. The countries whose names begin with consonants and are in the East (Bulgaria, Brazil,..... ) are 13. Hence (4).
  3. 1 Countries in S whose names start with vowels: Argentina, Australia, Equador : (3) and number of capital cities starting with vowel is Ottawa and Accra (2).
  4. 4 We do not know whether Korea scored a goal in the last 5 minutes, from both statements.
  5. 1 The first statement gives us that by adding 4, the number (4, 12, 20...) would be divisible by 8.
  6. 1 Solving the first, we get  $(x + y) (x + y/xy) = 4$ ; or  $(x + y)^2 = 4xy$  ; or  $(x - y)^2 = 0$ , hence  $x = y$ . We cannot get the answer from the second statement.
  7. 1 We can arrive at the CP from the first statement. But statement (2) just gives the SP but we do not know the discount.
  8. 4 We cannot arrive at the average since we do not know individual scores or number of students.
  9. 4 Put different values in the given statements. We find that the question cannot be answered as we get different answers.
  10. 3 To make a Venn diagram, we need both statements.
- Total = 300.
11. 3 From first statement we get only J's share. Only by combining the statements we get the values of each student.
  12. 3 Statement (v): doctor got offer from 3 NIMS, hence choices 1 & 2 are wrong. Statement (iv):  $D > A$  and  $D$  not equal to 2 from statement (ii) Hence  $D = 3$ ,  $A = 0$ . Also Engineer = F since he is not D, S or A. This leaves Samir with 2 calls, Hence (3).
  13. 4 Ganesh spends 3.50, A spends Rs 35. Hence A must start with Rs 40 and  $G = 20$  (statement iii). Also  $D = 20$  and  $S = 30$  (statement iv). Hence  $J = 10$ . Now  $A = 40 - 35 = 5$ , hence (i) is wrong.  $G = 20 - 3.50 = 16.50$ , hence (3) is

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- wrong. Sandeep cannot spend Rs 29 because D cannot spend Rs 27.50, hence (2) is also wrong. Clearly (4) is the only answer that is possible.
14. 1 Draw a diagram for the conditions stated. Clearly,  $P > G > H$ .
15. 3 From the statements, we know that Pune = 3, Bangalore = 2, Hyderabad = 1. Loyola is *not equal to* 1, Convent *not equal to* Hyderabad, hence *not equal to* 1 which leaves little flowers = 1 (Hyderabad). Now Loyola *not equal to* 1 *not equal to* Pune, hence Loyola = Bangalore = 2, which gives (3) as answer.
16. 3 We have  $x = 3 \sqrt{xy}$  or  $x^2 = y$ . Only choice (1) and (3) are feasible, since  $4^2 = 16$  Int the ages are less than 10. Choice (1) is also wrong, since we get 3 and 9 Int  $10y + x$  is not divisible by 2. Choice (3) is the answer – the ages are 2 and 4; and  $24 - 3 = 21$  which is equal to  $42 / 2$ .
17. 1 Total passengers = 180, M = 108, F = 72. Seating capacity of each plane =  $[\frac{2}{3} \times 180] = 60$ . After Flight A, 60% of seats (120) are empty, which means 100 boarded Flight A. This leaves 80 for Flight B, of which 40 are women. There are 4 air- hostesses, hence ratio = 10 : 1.
18. 1 Total distance travelled =  $10 + 10 + 20 + 40 + 10 = 90$ . [Divide speed by time at every stage].
- 19.3 Vertical distance =  $10 + 20 + 10 = 40$ ; Horizontal distance =  $40 - 10 = 30$ .  
Radial distance =  $\sqrt{(30^2 + 40^2)} = 50$  km and the direction is North- East.
20. 1 Horizontal distance = 30 (West); Vertical distance = 20 (South).
21. 3 Horizontal distance = 30(West); Vertical distance = 40 (South).
22. 2 BD to AE; AE to AAA. =  $0 + 0 = 0$ .
23. 3 BD to AE; AE to AAB =  $0 + 95.2 = 95.2$
24. 2 BB to AB; AB to AAG =  $311.1 + 0 = 311.1$
25. 1 BB to AC; AC to AAA =  $451.1 + 314.5 = 765.6$
26. 4  $6 \times 7 \times 9 = 378$ .
27. 2 BE to AE; AE to AAG =  $1157.7 + 1035.3 = 2193$
28. 3 Dividing earnings in complex by days in complex, we get 5 employees more than 50: nos 51, 58, 64, 72 and 73.
29. 4 There are 25 working days, hence 80% attendance = 20 days. Counting the employees greater than 600 and above 20 days, we get 7 employees.
30. 1 Employee no. 80 earns  $1262.79 / 19$  in medium = approx. 66, which is the highest among the given employees.
31. 3 There are 7 employees whose earnings in complex and medium must be compared. By usual analysis, the employees whose complex earnings average is greater than average medium earnings are: 51, 58, 64, 71 and 72. Employee no. 79 and 80 do not qualify as their medium earnings are greater.
32. 3 Qualifying amount is 5% of  $3374 = 168.7$ . The number of operations less than this number is 4.

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33. 2 The number of operations where more than 200% revenue growth has taken place (increase of 3 times or more) are: Spain (55 to 394) and Latin America (115 to 482). For the others it is less than 200%.
34. 3 There are 5 operations which registered a sustained yearly increase in income – just counting is required.
35. 2 Net income before taxes and charges has increased 5.5 times, from 248 to 1375 in 1998 – 99. Only one unit (Argentina) has increased more than this figure.
36. 2 Only the second statement is true: Profitability in North Sea Operations = 20/52 in 1998 and 54/65 in 1999, an increase from 38 to 83%. None of the other statements are true.
37. 2 Spain's profitability in 2000 is  $225/43 = 5.2$ , which is the highest.
38. 4 The least efficient operation in 2000 is Latin America. Revenue to expense ratio is  $482/252 = 1.91$ , which is the lowest.
39. 4 From the previous questions, we find that the first 3 statements are true. Only statement 4 can be ticked, though rest of the world is the least efficient.
40. 2 Medium qualities Crop 1 and 2 = 6, 7, 8, 9, 13. Only R1 and R4 produce low quality Crop 3 and R5 & R9 produce Crop 4. Hence there are one common region.
41. 3 Crop 3 regions are: 1, 2, 3, 4, 6, 7, 9, 11, 13 of these 1, 2, 3, 4, 9 and 11 produce Crop 4. But 9 and 11 do not produce Crop 2. Hence 4 regions are left.
42. 3 Low Quality Crop 1 : 9, 10, 11. High Quality Crop 4 or medium quality Crop 3 are 3, 10, 11 and 3, 9, 11. Hence 3 regions are common.
43. 2 Considering percentages above, we see that Switzerland has average price of 20/11 which is  $> 1$ . All others are less than 1.
44. 2  $(16\% \text{ of } 5760) / (15\% \text{ of } 1.055) = 5.60$ .
45. 2 We get the following ranking table:

	WB	UP	TN	MA	KA	GU	AP
1996 – 97	7	6	2	1	5	3	4
1997 – 98	7	5	2	1	6	4	3
1998 – 99	7	5	2	1	6	4	3
1999 – 2000	7	5	2	1	6	4	3
2000 – 2001	7	4	2	1	6	5	3

All questions can be answered from the above table.

- 46.2  
 47.4  
 48.3  
 49.1  
 50.3

**SECTION II**

51. 3 Numbers of numbers formed less than a million:

One digit = 2  
 2 – digit =  $2 \times 3 = 6$   
 3 – digit =  $2 \times 3 \times 3 = 18$   
 4 – digit =  $2 \times 3 \times 3 \times 3 = 54$   
 5 – digit =  $2 \times 3^4 = 162$

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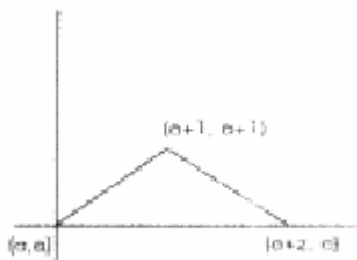
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- 6 – digit = 2 X 35 = 486.  
 Adding, we get 728.
52. 3 Let  $p = q = r = 1$  which satisfies the given condition. Then the expression becomes  $1/3 + 1/3 + 1/3 = 1$ . This is the short cut method though the sum can also be done algebraically.
53. 1  $a^6 - b^6 = (a^3 - b^3)(a^3 + b^3) = (a - b)(a^2 + ab + b^2)(a + b)(a^2 - ab + b^2)$ . The expression is always divisible by  $(a + b)$ .
54. 4 Choosing a black square, we can not take the white square in the same column or row, hence 24. Total number of ways =  $24 \times 32 = 768$ .
55. 3 Taking  $3^2 + 4^2 = 5^2$  (shortcut method,  $u = 3, v = 4, m = 2$ ). Hence  $2 < 3$  which is the third choice,  $m < \min(u, v, w)$ .
56. 4 Let the speeds be:  $E = 2x, N = 4x, S = x$ . Then  $d/4x + d/x = 1$  or  $5d = 4x - d = 4/5 x$ . Now  $N$  is double =  $8x$  and  $S = y$ . Then

$$\frac{d}{8x} + \frac{d}{y} = \frac{20}{60} \rightarrow \frac{4x/5}{8x} + \frac{4x/5}{y} = \frac{1}{3} \rightarrow \frac{4x}{5y} = \frac{17}{30}; \frac{4x}{y} = \frac{17}{3} \text{ or } \frac{y}{x} = \frac{3}{17} = \frac{1}{6} \text{ approx.}$$

57. 4 Look at the choices to find out a pythagorean triplet. In choice (4) this becomes 3, 4, 5. Then  $3 + 4 = 7; 7 - 5 = 2 = 4/2$  hence (4).
58. 2 Plot the points to get (use  $a = 0$ )



- Base = 2, height = 1. Hence area =  $1/2 (2) (1) = 1$ .
59. 2 In the first case, distance travelled by train and cat respectively are  $(D)$  and  $3/8x$ . In the second case it is  $(D + x)$  and  $5/8 x$ . Equating the time, we get:

$$\frac{D}{t} = \frac{3/8x}{C} \text{ and } \frac{D+x}{t} = \frac{5/8x}{C}$$

, subtracting; we get ;

$$\frac{x}{t} = \frac{2/8x}{C} \therefore \frac{x}{2/8x} = \frac{t}{C} = 4 : 1$$

60. 3 The order we get is:

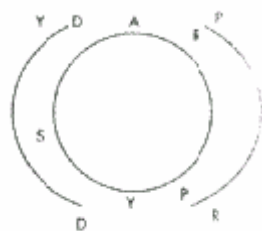
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After exchanging position, S will be left of Y.

61. 1 The combinations are:  $11 \times 10 \times 9 \times 8 = 7920$ .
62. 3 One symmetric =  $11 \times 15 \times 14 \times 3$ ; Two symmetric =  $11 \times 10 \times 15 \times 3$ , and one symmetric =  $11 \times 10 \times 9$ . Adding the three, we get 12870.
63. 4 Work from the choices, the number satisfying the conditions is 53, which when divided by 84, would give remainder 53.
64. 4 First step: We find the HCF of the given numbers  $9/2, 27/4, 36/5, \dots$ , which is  $9/20$ .  
 Total weight of cake =  $9/2 + 27/4 + 36/5 = 369/20$ . Divide this by HCF to get number of guests =  $369/20 \times 9/20 = 41$ , hence (4).
65. 2 Find the LCM of

$$\left( \frac{5}{2} + 1, \frac{17}{4} + 1 \text{ and } \frac{41}{5} \right) = 73.5$$

66. 3 Solving the given expression, we get  $A^2(x - 1) + B^2(x) = x(x - 1) \rightarrow x^2 - x(1 - A - B) + A = 0$ . This expression will have 2 roots.
67. 1

$$\frac{2^{256}}{17} \rightarrow 2^4 = -1 \pmod{17}$$

$$(2^4)^{64} = [-1 \pmod{17}]^{64} = (-1)^{64} = 1$$

68. 4 The number of regions depends on how the lines are drawn.
69. 4 Substitute some values, say  $x = 2.8$  and  $y = 1.8$ . We find that  $L(x, y) > R(x, y)$  is not possible while all other choices can be satisfied.
70. 4 Sum of natural nos. =

$$\frac{n(n+1)}{2} = 575 + x \cdot n^2 + n \geq 1150$$

- Substituting values for  $n$ , we find that 20 was the number that was missed.
71. 3 He pays Rs 300, so he can rent the car for 6 hours ( $6 \times 50$ ). Or he can use it for  $< 5$  hours and pay Rs  $300/12$  which is not possible.
72. 2  $10b + a = 10a + b + 18$ ; hence  $a - b = 2$ .
73. 3  $x^2 + 5y^2 + z^2 = 2y(2x + z)$

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- $\implies x^2 + 4y^2 + z^2 + y^2 - 4xy - 2yz = 0; \quad (x - 2y)^2 + (y - z)^2 = 0;$   
 hence  $x = 2y$  and  $y = z$ .
74. 1  $s = 2 + 5x + 9x^2 + \dots; \quad xs = 2x + 5x^2 + 9x^3 + \dots; \quad (1 - x)s = 2x + 3x^2 + 4x^3 + \dots$   
 $x(1 - x)s = 2x^2 + 3x^3 + 4x^4 + \dots; \quad (1 - x^2)s = 2x + x^2 + x^3 + \dots$   

$$= x + \frac{x}{1-x} \implies xs = \frac{x(2-x)}{(1-x)^3}$$
75. 3  $24 + 14 = 38$ , of which they did something on 22 days;  $38 - 22 = 16$  days.  
 Total days =  $16 + 14 = 30$ .
76. 4 No. of two's = 6; minus 4's = (4). Hence  $6 - 4 = 2$ .
77. 3 Total fruits in the basket = 19; less taken out =  $4 \times 2 = 8$ . Hence  $19 - 8 = 11$ .
78. 4  $48(x - y) = x^2 - y^2 \implies x + y = 48$ .
79. 1 First he gathers the stones at the fifth stone. He goes  $8 + 12 + 8 + 4 = 32$  m. Then he carries 5 stones one by one over a distance of 92 m;  $92 \times 2 \times 4 = 828 + 32 = 860$  m.
80. 4 Area of ungrazed portion = square - (4 quarter circles) - circle =  $14^2 - n(7)^2 - 20 = 22$

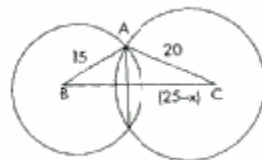


81. 2

$$f(x) + f(y) = \log \frac{(1+x)(1+y)}{(1-x)(1-y)} = \log \frac{1+xy+x+y}{1+xy-(x+y)}$$

$$= \log \frac{1 + \frac{x+y}{1+xy}}{1 - \frac{x+y}{1+xy}} = \log \left( \frac{1+xy+x+y}{1+xy-(x+y)} \right) = f \left( \frac{x+y}{1+xy} \right)$$

82. 1



$$15^2 = AP^2 + x^2$$

$$20^2 = AP^2 + (25 - x)^2 \quad (\text{Using})$$

Pythagorean identity)

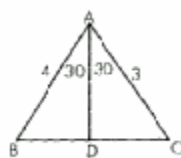
Solving the 2 equations, we get  $x = 16$  and  $9$ . Hence  $AP^2 = 15^2 - 9^2 = 144$ .  
 $AP = 12$  and therefore common chord = 24.

83. 2

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Using cos formula,  $\cos 60 =$

$$\frac{b^2 + c^2 - a^2}{2bc} = \frac{16 + 9 - a^2}{24} = \frac{1}{2}$$

hence  $a = \sqrt{13}$

Using Apollonius, we get  
 $AB \times AC - BD \times DC = AD^2$

$$12 \left( 1 - \frac{13}{49} \right) = AD^2; DC = \frac{3\sqrt{13}}{7}; \frac{36 \times 12}{49} = AD^2, AD = \frac{12\sqrt{3}}{7}$$

84. 4  $(1 \times 9 \times 8 + 2 \times 8 \times 7 + 3 \times 7 \times 6 + \dots) = 180.$
85. 2 Ratio of speed = 3 : 2; Large pump takes 2 hours, small pump takes 3 hrs.  
 Hence, if 4 pumps work together, we get  $3(1/3) + 1/2 = 3/2$ . Required ratio of work =  $2/3$ , which means that the large pump fills the  $1/3$  tank.
86. 2  $(200 + 2x)(2.00 - x)$ . Maximising this function, we get 300. Check:  $300 \times 1.50 = 450$ , which is the maximum amount.
87. 4 If no employee were added, it would take 10 hrs. After 5 pm, one more man is added. Total work = 60. Work done up to 5 pm =  $6 \times 6 = 36$ . Remaining work = 24, which is done in consecutive hours by  $7 + 8 + 9$  workers, hence taking 3 hours more.
88. 3 Using the given figure, we get  $DC^2 = 400 - (25 - x)^2 = 225 - x^2$ . Hence  $AD = 9$  and  $DB = 16$ . Using Pythagoras again, we get  $DC = 12$ . Then, we use  $A = rS$  of (triangle ADC). Hence  $r \times 18 = 54$ , or  $r = 3$ . Similarly we get  $r = 4$  for the bigger circle.  $PQ = r_1 + r_2 = 3 + 4 = 7$ .
89. 2 Total loaves =  $5 + 3 = 8$ . Each gets  $8/3$  each.  
 First gets,  $5 - 8/3 = 7/3$ . Second gets,  $3 - 8/3 = 1/3$ . Money should be divided in the ratio 7 : 1.
90. 3  $3x + x + (3x - 23) = 40$   $x = 9$ ; shortest piece =  $27 - 23 = 4$ .
91. 4 Since angle B = 90, we get  $BC = 2x$ .  $EO = OH = x$ .  $KL = 1/2 x$ . Tan of angle FGO =  $x / (1/2)x = 2$ . Hence none.
92. 3 Construct perpendicular lines and count the regions. The ratio of the quadrangles ABCD : DEFG = 12 : 7
93. 2  $M = 1/2 (M_i + L + J)$ . Add M on both sides to get  $3M = M + M_i + L + J$ ; hence  $M = 60/3 = 20$ . Similarly  $M_i = 15$ ,  $L = 12$ ,  $J = 13$ .
94. 2 Work from the choices. Only choice (2) gives the right answer.  
 20      16

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$$\frac{10}{5} \quad \frac{6}{1}$$

95. 3 Area left after 1<sup>st</sup> round =  $800 - 116 = 684$ .  
Area left after 2<sup>nd</sup> round =  $800 - 116 = 576$ .  
Area left after 3<sup>rd</sup> round =  $800 - 324 = 476$ .  
Hence it takes more than 3 rounds to arrive at 400.
96. 2  $(x + y + z)^2 = 25 \implies x^2 + y^2 + z^2 + 2(xy + yz + xz) = 25 \implies x^2 + y^2 + z^2 = 19$ . To maximise x, y and z = 0. Hence  $x = \sqrt{19}$
97. 4 Substitute n = 1, 2 to get the answer.
98. 2 Using the choices, we get  $(5 + 4)^2 = 81$  and  $81 - 27 = 54$ .
99. 3  $AB = 20$ ;  $AG_1 = BG_3$ ;  $2G_1G_2 = G_2G_3$ ;  $y + 2y = 20 - 2x$ ;  $y = 5$ . Time taken  $AG_3 @ 60 \text{ kmph} = 17.5 \text{ min}$   
 $20 + 17.5 + 1 = 38.5 \text{ min}$ . Diff = 1.5 min
100. 4 If  $BE = 1$ ,  $BC = 4$  since  $EC = 3BE$ . Hence area of the region =  $14 \times 4 = 56$

**Section III**

- |          |          |          |          |
|----------|----------|----------|----------|
| 101. (1) | 102. (4) | 103. (1) | 104. (3) |
| 105. (1) | 106. (3) | 107. (2) |          |
| 108. (3) | 109. (2) | 110. (3) | 111. (1) |
| 112. (4) | 113. (3) | 114. (1) |          |
| 115. (4) | 116. (2) | 117. (2) | 118. (1) |
| 119. (4) | 120.)    | 121.)    |          |
| 122. (2) | 123. (4) | 124. (2) | 125. (4) |
| 126. (4) | 127. (1) | 128. (1) |          |
| 129. (2) | 130. (1) | 131. (2) | 132. (2) |
| 133. (4) | 134. (4) | 135. (3) |          |
| 136. (4) | 137. (3) | 138. (2) | 139. (3) |
| 140. (1) | 141.)    | 142. (3) |          |
| 143. (4) | 144. (1) | 145. (3) | 146. (2) |
| 147. (4) | 148. (2) | 149. (4) |          |
| 150. (1) |          |          |          |

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