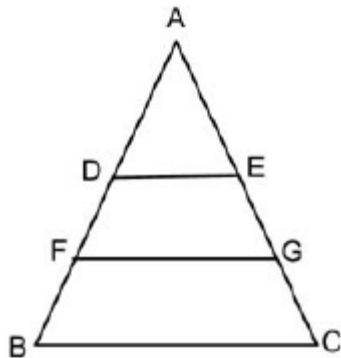


Que:71 In the triangle ABC given, DE and FG are drawn parallel to BC, such that the areas of triangle ADE, quadrilateral EGFD and quadrilateral GCBF are all equal. What is the ratio of the lengths of DE and FG?



(A) $1 : \sqrt{2}$

(B) $\sqrt{2} : 3$

(C) $1 : 2$

(D) $\sqrt{3} : 2$

(E) $\sqrt{3} : \sqrt{2}$

Que:72 Which of the following points (x, y) in the co-ordinate place does not lie on the line on the $31x + 13y - 75 = 0$?

(A) (2,1)

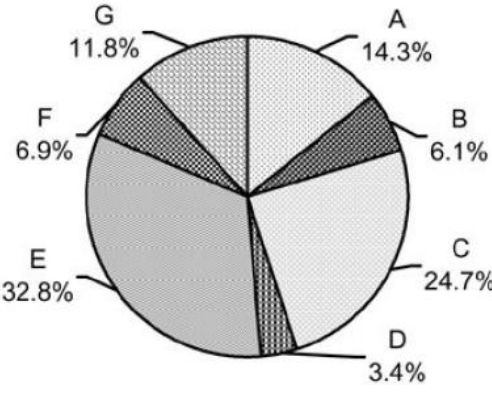
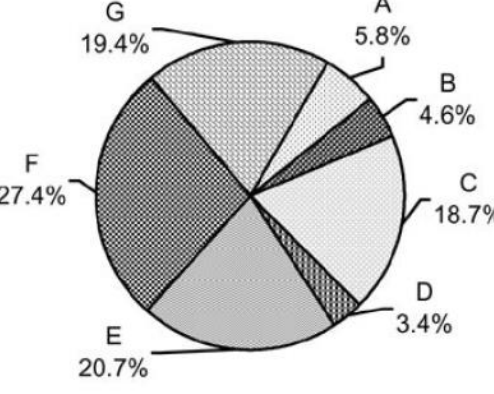
(B) (-11,32)

(C) (-24,63)

(D) (-37,95)

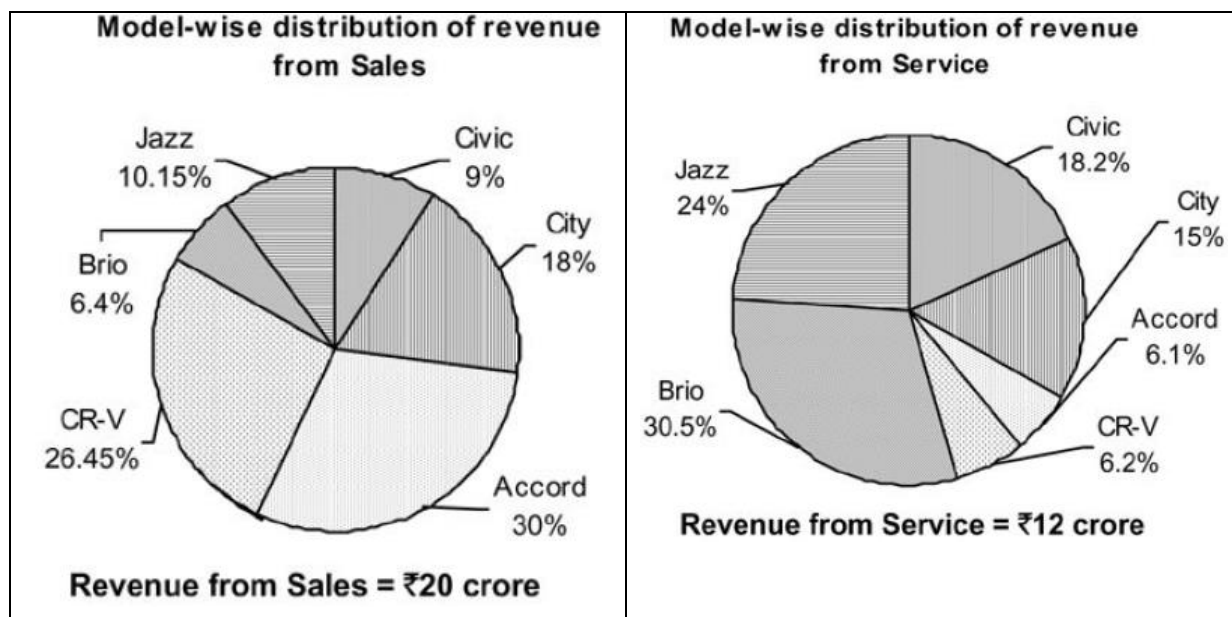
(E) (-11,95)

Que:73 To 75 are based on given data. The following pie charts give the details by quantity and value of fruits exported.

	<p style="text-align: center;">Quantity of Fresh Fruits Exported</p>  <p style="text-align: center;">Total = 44.4 million tonnes</p>	<p style="text-align: center;">Value of Fresh Fruits Exported</p>  <p style="text-align: center;">Total = ₹81.8 crore</p>
	<p>A: Apple B: Banana C: Citrus Fruit D: Pomegranate E: Mango F: Walnut G: Grapes</p>	
	<p style="text-align: center;">Export price per tonne = $\frac{\text{Value of fruits exported}}{\text{Quantity of fruits exported (in tonnes)}}$</p>	
<p>Que:73</p>	<p>For how many varieties of fruits is the export price per tonne less than that of mango?</p> <p>(A) 1 (B) 2 (C) 3 (D) 4 (E) None of this.</p>	
<p>Que:74</p>	<p>Which of the following statements is not true?</p>	
	<p>(A) Walnut has the highest export price per home. (B) The export price per tonne of Citrus fruit is more than that of mango. (C) The export price per tonne of Pomegranate is same as the export price per tonne of all varieties of fruits put together. (D) The export price per tonne of grapes is twice that of Pomegranate. (E) The export price per tonne of Citrus fruit is more than that of apple.</p>	
<p>Que:75</p>	<p>For all the varieties of fresh fruits put together, the total quantity of exports from 30% of total production. However, for Mangoes, the quantity of exports from 20% of the Mangoes. Production quantity of mangoes forms what percentage of the production of all the varieties of fresh fruits put together?</p>	

	(A)	47.3%
	(B)	51.4%
	(C)	49.2%
	(D)	55.3%
	(E)	49.7%
Que:76	Jacky has 12 Dollars and 5 Euros. Nelson has 8 Dollars and 4 Euros. Robert, who had no money, borrowed money equivalent to 24 rupees and 8 rupees from Jacky and Nelson respectively. If the value of the money with each of the three is now the same, then one Euro is worth how many rupees?	
	(A)	4
	(B)	5
	(C)	7
	(D)	2
	(E)	3
Que:77	The number of days in which Nelcy and Mike together can complete a piece of work is 12 days less than the time taken by Nelcy alone and 27 days less than the time taken by Mike alone to complete the work. If the Nelcy and Mike completed work in 15 days with the help of James and got a total compensation of Rs. 3000 for the work, then what is the share of James?	
	(A)	Rs. 500
	(B)	Rs. 800
	(C)	Rs. 1000
	(D)	Rs. 600
	(E)	Rs. 750
Que:78	Let us consider a regular polygon of n sides, with vertices P_1, P_2, \dots, P_n and centre O, such that, for every i, $OP_i = (-1)^{2i}$ units. Now, if n is chosen as a finitely large natural number and the area of polygon is denoted by A, the value of A is closet to	
	(A)	$\frac{3}{2} \pi \text{ sq. units}$
	(B)	$4\pi \text{ sq. units}$
	(C)	$\frac{1}{2} \pi \text{ sq. units}$

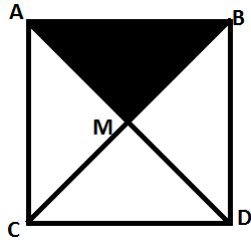
	(D)	$2\pi \text{ sq. units}$
	(E)	$\pi \text{ sq. units}$
Que:79	If $g(x) = \text{maximum of } (2x+5, 14-x)$, then what is the minimum possible value of $g(x)$?	
	(A)	3
	(B)	5
	(C)	11
	(D)	12
	(E)	13
Que:80	The triangle has longest side as 38 cm. If one of the remaining sides is 10 cm and the area of the triangle is 152 sq.cm, then find the third side.	
	(A)	$15\sqrt{25} \text{ cm}$
	(B)	$15\sqrt{6} \text{ cm}$
	(C)	$5\sqrt{6} \text{ cm}$
	(D)	$8\sqrt{17} \text{ cm}$
	(E)	$4\sqrt{51} \text{ cm}$
Que:81	Anna, Ben and Clark together have a total of Rs. 100 with them. If Anna gives Rs. 13 to Ben, then Ben will have four times of what Anna has, whereas, if Clark gives Rs. 7 to Ben, then Clark will have one-third of what Ben has. What amount should Ben give to Clark, so both of them have the same amount?	
	(A)	Rs. 10
	(B)	Rs.
	(C)	Rs. 20
	(D)	Rs. 13
	(E)	Rs. 11
<p>For Que: 82 To 84. Answer the question on the basis of the information given below.</p> <p>The following pie-charts give details regarding the model-wise break-up of revenues obtained from sales and service of Honda cars, in the year 2010, at a particular showroom.</p>		



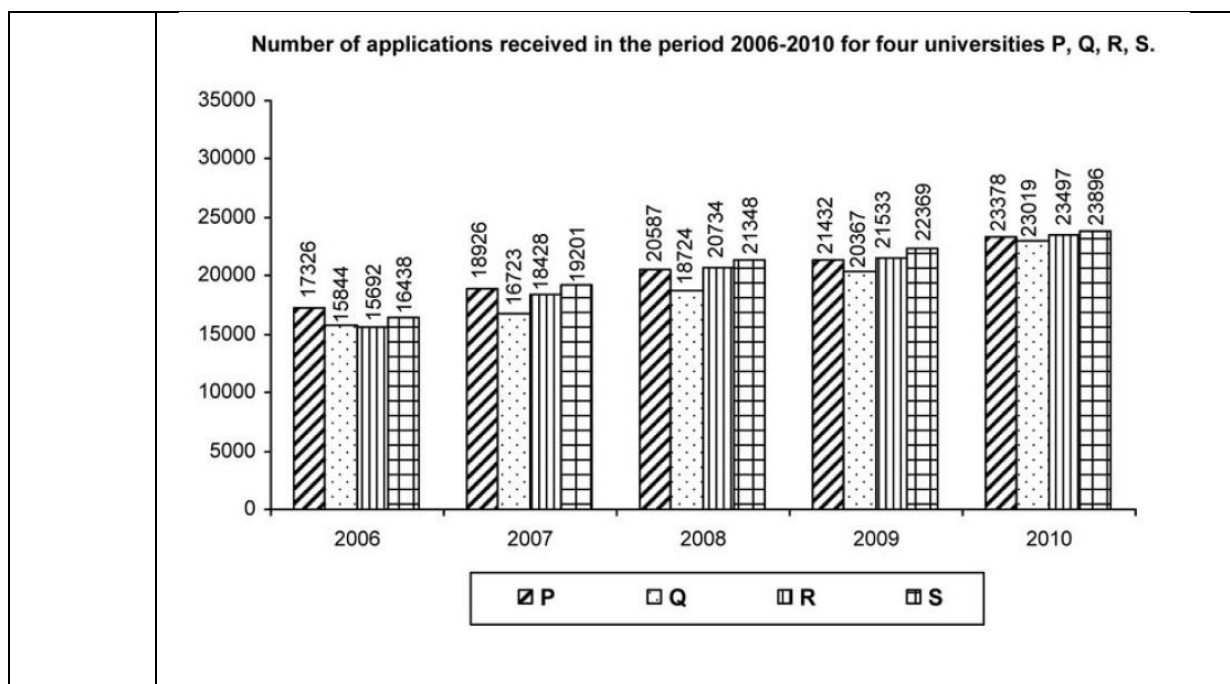
Que:82	<p>The combined revenue from sales and service is the highest for which of the given models.</p>
(A)	Accord
(B)	City
(C)	CR-V
(D)	Brio
(E)	Civic
Que:83	<p>If the ex-showroom price of each unit of Brio is Rs. 4 lakhs, that of Jazz is Rs. 5.8 lakhs, of Civic is Rs. 7.2 lakhs, of City is Rs. 12 lakhs, of Accord is Rs. 20 lakhs and of CR-V is Rs. 23 lakhs, the least number of units sold of nay model in 2010 is:</p>
(A)	30
(B)	21
(C)	31
(D)	25
(E)	23
Que:84	<p>If the ratio of the number of cars sold of Brio, Jazz, Civic, City, Accord and CR-V is 6:7:5:6:6:5 and the ratio of the number cars serviced of the six models is the same as that of cars sold, for which model is the sum of the revenue per car from service, the least?</p>
(A)	Brio

	(B)	Jazz
	(C)	Accord
	(D)	Cannot be determined
	(E)	CR-V
Que:85	A train starting from Old Delhi railway station to Chandigarh railway station encounters 38 intermediate railway stations along its route. In how many ways can the train stop at exactly three intermediate stations such that no two of them are consecutive?	
	(A)	6545
	(B)	5984
	(C)	7140
	(D)	8436
	(E)	6735
Que:86	If α_1 and α_2 are the real roots of $x^2 - px + 12 = 0$, then which of the following statements is definitely true?	
	(A)	$ \alpha_1 + \alpha_2 \leq 2\sqrt{3}$
	(B)	$ \alpha_1 - \alpha_2 \leq 2\sqrt{3}$
	(C)	$ \alpha_1 + \alpha_2 \geq 4\sqrt{3}$
	(D)	$ \alpha_1 - \alpha_2 \geq 4\sqrt{3}$
	(E)	$ \alpha_1 + \alpha_2 \leq 6\sqrt{3}$
Que:87	If the point $(a + 1, 3a - 1)$ lies on the line passing through the points $(3,5)$ and $(2,2)$, then how many values of a are possible?	
	(A)	Zero
	(B)	Exactly one
	(C)	Exactly two
	(D)	More than two
	(E)	Less than two
Que:88	For all real numbers x and y, if $(x + y) = f(x)*f(y)$, where $f(z) > 0$ for all real z and $f(1) = 16$, then find $f\left(\frac{3}{4}\right)$.	
	(A)	8

	(B)	$\frac{9}{16}$
	(C)	12
	(D)	8
	(E)	None of above
Que:89	<p>The question given below is followed by two statements, A and B. Mark the answer using the following instructions:</p> <p>Mark (a) if the question can be answered by using FIRST statement alone.</p> <p>Mark (b) if the question can be answered by using SECOND statement alone.</p> <p>Mark (c) if the question can be answered by using either statement alone.</p> <p>Mark (d) if the question can be answered by using both the statements together, but cannot be answered by using either statement alone.</p> <p>Mark (e) if the question cannot be answered even by using both the statements together.</p>	
	<p>Find the number of students in the class.</p> <ol style="list-style-type: none"> If the number of students absent in the class is 5, then the total number of students in the class is less than 15. If the new enrolments of students in class are 8, then the total number of students in the class is more than 20. 	
Que:90	<p>The question given below is followed by two statements, A and B. Mark the answer using the following instructions:</p> <p>Mark (a) if the question can be answered by using FIRST statement alone.</p> <p>Mark (b) if the question can be answered by using SECOND statement alone.</p> <p>Mark (c) if the question can be answered by using either statement alone.</p> <p>Mark (d) if the question can be answered by using both the statements together, but cannot be answered by using either statement alone.</p> <p>Mark (e) if the question cannot be answered even by using both the statements together.</p>	
	<p>Who earns the highest salary? A, B and C together earns 500\$ and each of them earns a positive salary.</p> <ol style="list-style-type: none"> A earns \$150 	

	2. B earns \$250
Que:91	<p>The question given below is followed by two statements, A and B. Mark the answer using the following instructions:</p> <p>Mark (a) if the question can be answered by using FIRST statement alone.</p> <p>Mark (b) if the question can be answered by using SECOND statement alone.</p> <p>Mark (c) if the question can be answered by using either statement alone.</p> <p>Mark (d) if the question can be answered by using both the statements together, but cannot be answered by using either statement alone.</p> <p>Mark (e) if the question cannot be answered even by using both the statements together.</p>
	<p>100 men are standing in a queue. What is the height of the fifth man standing in the queue from front?</p> <ol style="list-style-type: none"> The height of the sixth man from the front of the line is 5 feet. The height of the sixth man from the front of the queue is 4 times the height of 96th man standing from the back of the queue and the height of the seventh man from the front is eight times the height of sixth man from the front of queue.
Que:92	<p>The question given below is followed by two statements, A and B. Mark the answer using the following instructions:</p> <p>Mark (a) if the question can be answered by using FIRST statement alone.</p> <p>Mark (b) if the question can be answered by using SECOND statement alone.</p> <p>Mark (c) if the question can be answered by using either statement alone.</p> <p>Mark (d) if the question can be answered by using both the statements together, but cannot be answered by using either statement alone.</p> <p>Mark (e) if the question cannot be answered even by using both the statements together.</p>
	

	<p>What is the area of the shaded portion for the square ABCD?</p> <ol style="list-style-type: none"> 1. $AB = 10$ units 2. $BC = 5$ units
Que:93	<p>The question given below is followed by two statements, A and B. Mark the answer using the following instructions:</p> <p>Mark (a) if the question can be answered by using FIRST statement alone.</p> <p>Mark (b) if the question can be answered by using SECOND statement alone.</p> <p>Mark (c) if the question can be answered by using either statement alone.</p> <p>Mark (d) if the question can be answered by using both the statements together, but cannot be answered by using either statement alone.</p> <p>Mark (e) if the question cannot be answered even by using both the statements together.</p>
	<p>P, Q and R have some marbles with them. Is the number of marbles with P more than the number of marbles with Q?</p> <ol style="list-style-type: none"> 1. The number of marbles with R is more than the number of marbles with Q. 2. The number of marbles with P is less than the number of marbles with R.
Que:94	<p>The question given below is followed by two statements, A and B. Mark the answer using the following instructions:</p> <p>Mark (a) if the question can be answered by using FIRST statement alone.</p> <p>Mark (b) if the question can be answered by using SECOND statement alone.</p> <p>Mark (c) if the question can be answered by using either statement alone.</p> <p>Mark (d) if the question can be answered by using both the statements together, but cannot be answered by using either statement alone.</p> <p>Mark (e) if the question cannot be answered even by using both the statements together.</p>
	<p>What is the age of Thomas, if his age is between 4 and 87 years and it is a perfect cube?</p> <ol style="list-style-type: none"> 1. Age of Thomas is not even 2. Age of Thomas is a perfect square
Consider below figure for Que:95 & Que:96	



Que:95	The percentage increase in the average number of applications received per university from 2007 to 2009 is
(A)	16.34%
(B)	16.95%
(C)	16.69%
(D)	18.88%
(E)	None of these
Que:96	The least percentage increase in the number of applications received by University R, when compared to previous year, was in the year
(A)	2006
(B)	2007
(C)	2008
(D)	2009
(E)	2010
Que:97	The number of possible values of the integer x such that when x divides $41n$, the remainder is 1, where n is any prime number greater than 5 will be
(A)	12
(B)	16
(C)	14
(D)	8

	(E)	None of these
Que:98	On the bank of a river there are two places of worship. Shreya takes some flowers with him and puts them into the river. Whenever she puts flowers into the river, number of flowers gets doubled. Then she offers the x^{th} part of it to the first place of worship. Then she puts the remaining flowers into the river and again offers the x^{th} part of it to second place of worship. Find x if the ratio between the flowers offered on first place and the flowers now remaining is 2:9?	
	(A)	1
	(B)	7
	(C)	3
	(D)	4
	(E)	5
Que:99	If p is a positive integer, and if the unit digit of p^2 is 9 and the unit digit of $(p+1)^2$ is 4 then what is the unit digit of $(p+2)^2$?	
	(A)	9
	(B)	1
	(C)	7
	(D)	3
	(E)	5
Que:100	The equation $ax^2 + bx + c = 0$ and $x^2 + 2x + 3 = 0$ have one root in common then a:b:c?	
	(A)	3:2:1
	(B)	1:2:3
	(C)	2:1:3
	(D)	3:1:2
	(E)	1:3:2
Que:101	If $A_1 = (1)$, $A_2 = (2,3,4)$, $A_3 = (5,6,7,8,9)$, then the first term of A_{21} is	
	(A)	361
	(B)	324
	(C)	399
	(D)	363

	(E)	401
Que:102	There are n females and n corresponding males to form a pair. The maximum number of trials required to match all the females and males to form pair is	
	(A)	$n(n-1)/2$
	(B)	$n(n+1)/2$
	(C)	n
	(D)	$n(n-1)$
	(E)	None of these
Que:103	The maximum sum of the series: 19, 18.5, 17.4,... is	
	(A)	237
	(B)	235.5
	(C)	235
	(D)	237.5
	(E)	None of these
Que:104	The minimum value of $\log_5 3 + \log_7 5 + \log_9 7$ will be	
	(A)	$3/\sqrt{2}$
	(B)	$7/\sqrt{5}$
	(C)	$9/\sqrt{7}$
	(D)	$7/\sqrt{3}$
	(E)	None of these
Que:105	A function is defined for all natural numbers greater than 1 as $f(n) = (1 - 1/n)$. $f(1) = 1$, what is the value of $1/f(1) + 1/f(2) + \dots + 1/f(9)$?	
	(A)	45
	(B)	1/4032
	(C)	81
	(D)	41
	(E)	None of these
Que:106	<p>The question given below is followed by two statements, A and B. Mark the answer using the following instructions:</p> <p>Mark (a) if the question can be answered by using FIRST statement alone.</p> <p>Mark (b) if the question can be answered by using SECOND statement alone.</p>	

	<p>Mark (c) if the question can be answered by using either statement alone.</p> <p>Mark (d) if the question can be answered by using both the statements together, but cannot be answered by using either statement alone.</p> <p>Mark (e) if the question cannot be answered even by using both the statements together.</p>
	<p>If both m and n are positive integers less than 100 and greater than 10, is the sum of m + n a multiple of 11?</p> <ol style="list-style-type: none"> m - n is multiple of 22. The tens digit and the units digit of m are the same, the tens digit and the units digit of n are the same.
Que:107	<p>The question given below is followed by two statements, A and B. Mark the answer using the following instructions:</p> <p>Mark (a) if the question can be answered by using FIRST statement alone.</p> <p>Mark (b) if the question can be answered by using SECOND statement alone.</p> <p>Mark (c) if the question can be answered by using either statement alone.</p> <p>Mark (d) if the question can be answered by using both the statements together, but cannot be answered by using either statement alone.</p> <p>Mark (e) if the question cannot be answered even by using both the statements together.</p>
	<p>Is $x > 2$?</p> <ol style="list-style-type: none"> $2x - 19 < 7$ $x^2 - 4x = 0$
Que:108	<p>The question given below is followed by two statements, A and B. Mark the answer using the following instructions:</p> <p>Mark (a) if the question can be answered by using FIRST statement alone.</p> <p>Mark (b) if the question can be answered by using SECOND statement alone.</p> <p>Mark (c) if the question can be answered by using either statement alone.</p> <p>Mark (d) if the question can be answered by using both the statements together, but cannot be answered by using either statement alone.</p> <p>Mark (e) if the question cannot be answered even by using both the statements together.</p>
	<p>Is $x > y$?</p>

	<p>1. $3x + 5y = 11$</p> <p>2. $x^5 > y^5$</p>
Que:109	Find the unit digit of the expression $199^{2n} + 144^{2n}$, where n is a natural number
	(A) 5
	(B) 7
	(C) Either
	(D) 4
	(E) 1
Que:110	Two persons A and B are walking around a circular park of length 960m. A walks at the rate of 80m/min while B walks at the rate of 60 m/min. If both start from the same starting point at the same time in the same direction, then they will be together at?
	(A) 24 min
	(B) 48 min
	(C) 36 min
	(D) 54 min
	(E) 42 min
Que:111	M and N can complete a piece of work in 16days, which N can complete in 32 days. If M and N work on alternate days, starting with N, in how much time would the work be completed?
	(A) 16 days
	(B) 24 days
	(C) 32 days
	(D) 18 days
	(E) None of these

Scroll down for answers...

ANSWER KEY			
Que:71	A	Que:95	B
Que:72	D	Que:96	D
Que:73	A	Que:97	D
Que:74	D	Que:98	D
Que:75	C	Que:99	B
Que:76	A	Que:100	B
Que:77	A	Que:101	E
Que:78	E	Que:102	A
Que:79	C	Que:103	B
Que:80	D	Que:104	E
Que:81	E	Que:105	A
Que:82	A	Que:106	B
Que:83	E	Que:107	E
Que:84	D	Que:108	B
Que:85	C	Que:109	C
Que:86	C	Que:110	B
Que:87	D	Que:111	B
Que:88	A		
Que:89	E		
Que:90	B		
Que:91	D		
Que:92	C		
Que:93	E		
Que:94	C		