CLASS CONTENT : MISC 2

- FAMILY TREE WITH CHOC. DISTR.
- COL. BASED INEQ.
- ALPHANUMERIC SERIES (STEPWISE)
- ROW RESULTANT SERIES
- NEW PATTERN INPUT-OUTPUT

तीन पीढ़ियों के परिवार के दस सदस्य। एक ही परिवार के A1, A2, A3, A4, A5, A6, A7, A8, A9, और A10 316 चॉकलेट का एक पैकेट आपस में बांट रहे हैं, लेकिन जरूरी नहीं कि इसी क्रम में हों। सभी संबंधों को कोडित रूप में परिभाषित किया गया है अर्थात *, @, %, $, और # जिसका अर्थ क्रमशः माँ, पति, बेटी, भाई और पत्नी है। चार विवाहित जोड़े हैं जिनमें से दो दूसरी पीढ़ी के हैं।

A4 @ A3 के पास शुरू में पैक होता है और वह विषम संख्या में कुछ मात्रा में चॉकलेट लेता है और बाकी A9 को दे देता है। A9 4 और 8 दोनों के गुणज में कुछ चॉकलेट लेता है और बाकी अपने $ A1 को दे देता है। A1 अपने $ A9 से एक चॉकलेट कम लेता है और 192 चॉकलेट A6 को देता है जो A7 का * है जो A6 से 163 चॉकलेट लेता है और उनमें से कुछ को 5 या 6 के वर्ग में रखता है और बाकी A10 को देता है। A10, जो A4 का $ है, 15 चॉकलेट लेता है जो A5 द्वारा ली गई चॉकलेट की संख्या से 10 कम है और शेष A8 @ A5 को दे देता है। A2, A6 का @ है जो A4 का % है। A2, A8 से 85 चॉकलेट लेता है और A5 से तीन चॉकलेट अधिक लेता है और A3 को शेष देता है। A9, जो A7 का है, A4 से 5 चॉकलेट कम लेता है, जो A10 का $ है, वह अधिकतम संख्या में चॉकलेट लेता है। A3 32 चॉकलेट लेता है जो A9 से आठ कम है और A5 को शेष देता है। A7 द्वारा ली गई चॉकलेट की संख्या किसी के चॉकलेट के समान नहीं है। A8, A6 का $ है।

Ten family members of three-generation viz. A1, A2, A3, A4, A5, A6, A7, A8, A9, and A10 from the same family are sharing a pack of 316 chocolates among them, but not necessarily in the same order. All the relations are defined in the coded form i.e. *, @, %, $, and # which means Mother, Husband, Daughter, Brother, and Wife respectively of the latter one. There are four married couples out of which two being in 2nd generation.

A4 @ A3 has the pack initially and takes some amount of chocolates in an odd number and gives the rest to A9. A9 takes some chocolates in the multiple of both 4 and 8 and gives the rest to his $ A1. A1 takes one chocolate less than his $ A9 and gives 192 chocolates to A6 who is * of A7 who takes 163 chocolates from A6 and holds some of them in a square of either 5 or 6 and gives rest to A10. A10 who is $ of A4 takes 15 chocolates which is 10 less than the number of chocolates that A5 takes and gives the rest to A8 @ A5. A2 is @ of A6 who is % of A4. A2 takes 85 chocolates from A8 and takes three chocolates more than A5 and gives rest to A3. A9 who is @ of A7 takes 5 chocolate less than A4 who is $ of A10 takes the maximum number of Chocolates. A3 takes 32 chocolates which is eight less than A9 and gives rest to A5. Number of chocolates taken by A7 is not similar with anyone's. A8 is $ of A6.

✓ Done

What is the sum of chocolates that A5 and her spouse have?

A) 48

B) 50

C) 52

D) 42

E) 47

How many chocolates does A7 take?

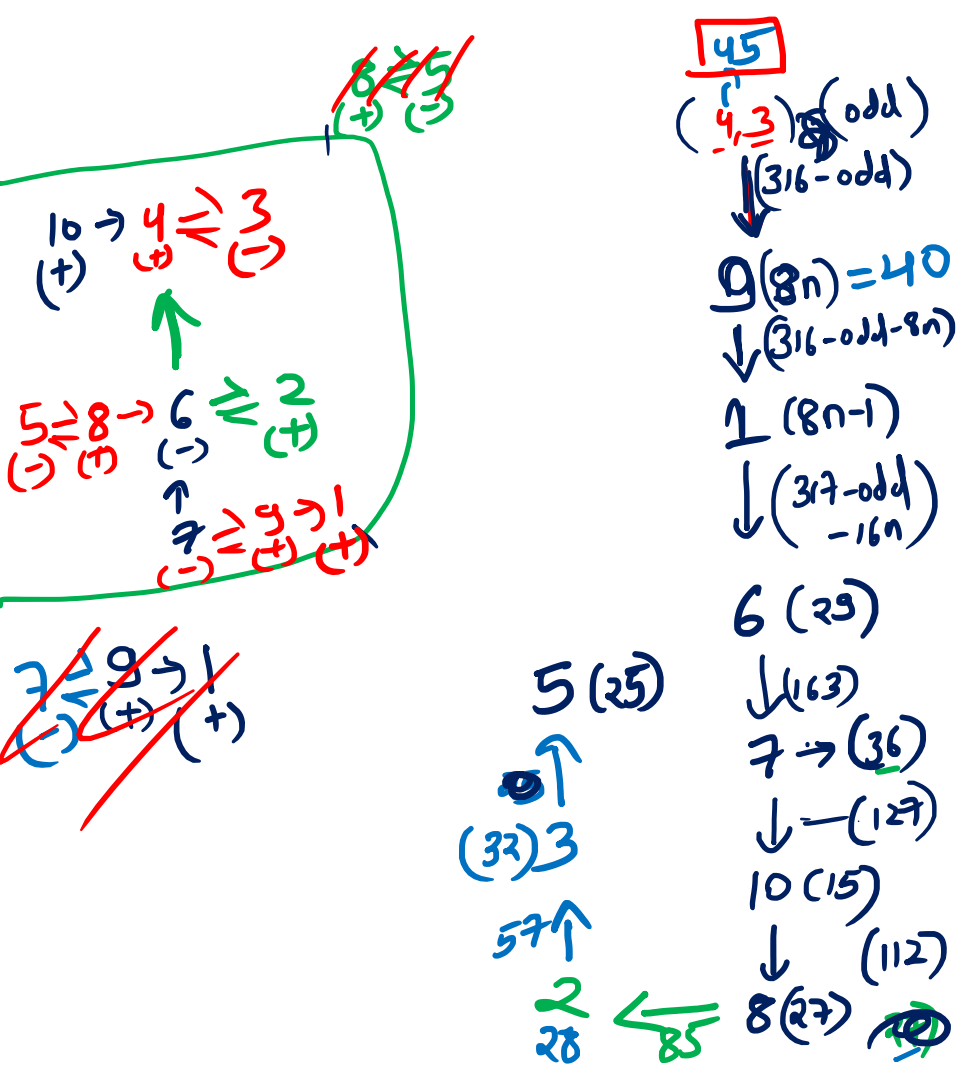
A) 25

B) 16

C) 49

D) 36

E) 34



Ten family members of three-generation viz. A1, A2, A3, A4, A5, A6, A7, A8, A9, and A10 from the same family are sharing a pack of 316 chocolates among them, but not necessarily in the same order. All the relations are defined in the coded form i.e. *, @, %, $, and # which means Mother, Husband, Daughter, Brother, and Wife respectively of the latter one. There are four married couples out of which two being in 2nd generation.

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What is the conclusion of the statement

$$G>W\geq R=A;Y<V\leq I,\ A\geq B\geq P>I;\ G>E$$

COLUMN 1	COLUMN 2	COLUMN 3
1.$W\geq P$, $A>Y$	4.$G\geq B$, $E\geq A$	7.$E<P$, $Y>A$
2. $E<A$, $R>V$	5. $Y=R$, $W\geq Y$	8.$G>I$, $R\geq P$
3.$G<Y$, $E\leq I$	6.$R>I$,$P>Y$	9.$R>Y$, $A\geq V$

a) Only III, VI, and VIII
b) Only II, IV, and VIII
c) Only III, V, and VII
d) Only I, VI, and VIII
e) Only III, VI, and IX

What is the conclusion of the statement

G>W≥R=A;Y<V≤I, A ≥B ≥P>I; G>E

COLUMN 1	COLUMN 2	COLUMN 3
1.W≥P , A>Y	4.G≥B, E≥A	7.E<P , Y>A
2. E<A, R>V	5. Y=R, W≥Y	8.G>I , R≥P
3.G<Y, E≤I	6.R>I ,P>Y	9.R>Y, A≥V

a) Only III, VI, and
b) Only II, IV, and
c) Only III, V, and VII
d) Only I, VI, and VIII
e) Only III, VI, and IX

What is the conclusion of the statement
K>X≥E=G; W<V=B<G, I ≥A>W, I<Z ≤M

COLUMN 1	COLUMN 2	COLUMN 3
1.V>I, B>M	4.X≥G, Z>A	7.W<E, G>Z
2.K>B, M>W	5.X>A, V<Z	8.K>G, A<M
3.X>Z, K<B	6.B>A, X>W	9.V≥A, M≥B

a) Only III, VI, and VIII
b) Only II, IV, and VIII
c) Only III, V, and VII
d) Only I, VI, and VII
e) Only III, VI, and IX

What is the conclusion of the statement

K>X≥E=G; W<V=B<G, I ≥A>W, I<Z ≤M

COLUMN 1	COLUMN 2	COLUMN 3
1.V>I, B>M	4.X≥G, Z>A	7.W<E, G>Z
2.K>B, M>W	5.X>A, V<Z	8.K>G, A<M
3.X>Z, K<B	6.B>A, X>W	9.V≥A, M≥B

a) Only III, VI, and VIII

b) Only II, IV, and VIII

c) Only III, V, and VII

d) Only I, VI, and VII

e) Only III, VI, and IX

B

& @ © ≤ * + ! $ # % = ~ ^

चरण I: संख्या श्रृंखला में पहले चार अभाज्य संख्याओं पर विचार करें, इनमें से प्रत्येक संख्या में "2" जोड़ें और प्रत्येक तीसरे विशेष वर्ण के बाद सभी संख्याओं को एक ही क्रम में बाएं से दाएं लिखें।
चरण II: अंग्रेजी वर्णमाला श्रृंखला से उन अक्षरों को चुनें जिनका संबंधित स्थानीय मान "6" का गुणज है और ऐसे सभी अक्षरों को श्रृंखला में प्रत्येक दूसरे तत्व के बाद बाएं से दाएं उल्टे वर्णमाला क्रम में (एक-एक करके) लिखें। इस प्रकार चरण I के बाद गठित हुआ।
चरण III: अंग्रेजी वर्णमाला श्रृंखला से I को छोड़कर स्वरों को चुनें, और इस प्रकार बनी श्रृंखला में दाएं छोर से पांचवें, बारह, पंद्रह और उन्नीसवें तत्व के बाद दाएं से बाएं ऐसे सभी स्वरों (एक-एक करके) को वर्णमाला क्रम में लिखें। चरण II के बाद.
चरण IV: वर्णमाला श्रृंखला में जिन अक्षरों का स्थानीय मान सम संख्या है, उन्हें दूसरे अगले अक्षर से बदल दिया जाता है और जिन अक्षरों का स्थानीय मान विषम संख्याओं का होता है, उन्हें चरण III के बाद बनी श्रृंखला में पूर्ववर्ती अक्षर से बदल दिया जाता है।
इस प्रकार चरण IV अंतिम चरण है और अंतिम चरण के अनुसार नीचे दिए गए प्रश्नों के उत्तर दें

& @ © ≤ * + ! $ # % = ~ ^

Step I: Consider the first four prime numbers in the number series, add “2” to each of these numbers and write all numbers one by one after every third special character from left to right in the same order.

Step II: Pick out the letters from the English alphabetical series which have its corresponding place value is a multiple of “6” and write all such letters in reverse alphabetical order (one by one) from left to right after every second element in the series thus formed after step I.

Step III: Pick out the vowels except I from the English alphabetical series, and write all such vowels(one by one) in alphabetical order from right to left after fifth, twelve, fifteen and nineteenth element from the right end in the series thus formed after step II.

Step IV: The letters which have its place value of even number in the alphabetical series are replaced by second succeeding letter and the letters which have its place value of odd numbers are replaced by preceding letter, in the series thus formed after step III.

Thus step IV is the final step and answer the below questions according to the final step

Which of the following element is the ninth element to the left of the third consonant from the right end?

a) @
b) 1
c) Z
d) T
e) *

If first 16 elements are reversed, then how many such letters are there in the series which is either immediately preceded by or immediately followed by a symbol (but not both)?

a) Six
b) Seven
c) Eight
d) Five
e) Nine

& @ © ≤ * + ! $ # % = ~ ^ (2, 3, 5, 7) ± (4, 5, 7, 9)

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E, L, R, X X A L F

Step III: Pick out the vowels except I from the English alphabetical series, and write all such vowels(one by one) in alphabetical order from right to left after fifth, twelve, fifteen and nineteenth element from the right end in the series thus formed after step II.

U O E A

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(+2) (-1)

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I) & @ © 4 ≤ * + 5 ! $ # 7 % = ~ 9 ^

II) & @ X © 4 R ≤ * L + 5 F ! $ # 7 % = ~ 9 ^

III) & @ X U © 4 R ≤ O * L + E 5 F ! $ # 7 % A = ~ 9 ^

IV) & @ Z T © 4 T ≤ N * N + D 5 H ! $ # 7 % Z = ~ 9 ^

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e) *

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निम्नलिखित प्रत्येक प्रश्न में संख्याओं की दो पंक्तियाँ दी गई हैं। प्रत्येक पंक्ति में परिणामी संख्या की गणना निम्नलिखित नियमों के आधार पर अलग से की जानी है और संख्याओं की पंक्तियों के नीचे दिए गए प्रश्नों के उत्तर दिए जाने हैं। संख्याओं का संचालन बाएँ से दाएँ ओर बढ़ता है।

नियम: (I) यदि एक विषम संख्या के बाद दूसरी विषम संख्या आती है तो उन्हें गुणा करना होगा।

(II) यदि एक सम संख्या के बाद दूसरी सम संख्या आती है तो पहली संख्या को दूसरी सम संख्या से विभाजित किया जाता है।

(III) यदि एक सम संख्या के बाद एक विषम संख्या का पूर्ण वर्ग आता है, तो पहली संख्या को दूसरी संख्या से घटाया जाना चाहिए

(IV) यदि एक विषम संख्या के बाद एक सम संख्या आती है, तो दोनों संख्याओं को जोड़ा जाना चाहिए (V) यदि एक सम संख्या के बाद एक विषम संख्या आती है जो एक पूर्ण वर्ग नहीं है, तो विषम संख्या का वर्ग है सम संख्या में जोड़ा जाना है

नोट: यदि एक से अधिक शर्तों का पालन किया जाता है तो उस शर्त पर विचार करें जो पहले आती है।

Y - 2X का मान क्या है जहां X और Y क्रमशः पंक्ति 1 और 2 का परिणाम हैं?

96 16 81 = X

11 15 18 = Y

A]108

B) 33

C) 105

D) 36

E) None of These

In each of the following questions, two rows of numbers are given. The resultant number in each row is to be worked out separately based on the following rules and the questions below the rows of numbers are to be answered. The operations of numbers progress from the left to the right.

Rules: (I) If an odd number is followed by another odd number then they are to be multiplied.

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Note: If more than one condition is followed then consider the condition which comes first.

What is the value of Y - 2X where X and Y is resultant of row 1 and 2 respectively?

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A]108

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D) 36

E) None of These

96 ÷ 16 = 6 81 ⇒ 75 = X

11 15 ⇒ 165 + 18 ⇒ 183 = Y

183 − 2 × 75

183 − 150

33

B

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नियम: (I) यदि एक विषम संख्या के बाद दूसरी विषम संख्या आती है तो उन्हें गुणा करना होगा।
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What will be the value of X + Y?
18 5 17 = X
64 8 11 = Y
A) 189
B) 129
C) 69
D) 169
E) None of These

In each of the following questions, two rows of numbers are given. The resultant number in each row is to be worked out separately based on the following rules and the questions below the rows of numbers are to be answered. The operations of numbers progress from the left to the right.

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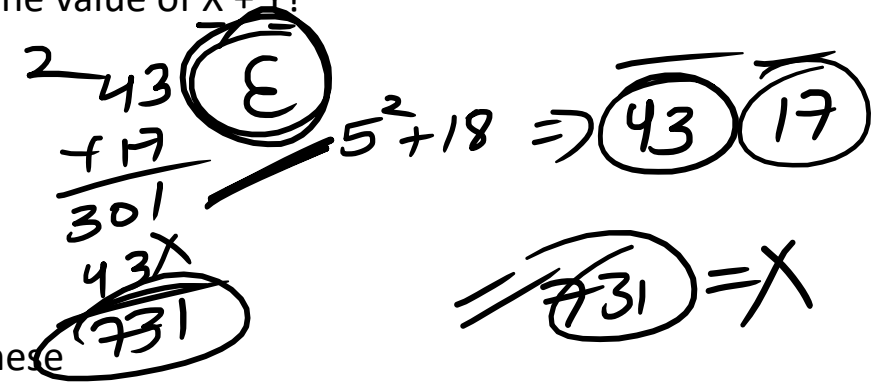

निम्नलिखित प्रत्येक प्रश्न में संख्याओं की दो पंक्तियाँ दी गई हैं। प्रत्येक पंक्ति में परिणामी संख्या की गणना निम्नलिखित नियमों के आधार पर अलग से की जानी है और संख्याओं की पंक्तियों के नीचे दिए गए प्रश्नों के उत्तर दिए जाने हैं। संख्याओं का संचालन बाएँ से दाएँ ओर बढ़ता है।
नियम: (I) यदि एक विषम संख्या के बाद दूसरी विषम संख्या आती है तो उन्हें गुणा करना होगा।
(II) यदि एक सम संख्या के बाद दूसरी सम संख्या आती है तो पहली संख्या को दूसरी सम संख्या से विभाजित किया जाता है।
(III) यदि एक सम संख्या के बाद एक विषम संख्या का पूर्ण वर्ग आता है, तो पहली संख्या को दूसरी संख्या से घटाया जाना चाहिए
(IV) यदि एक विषम संख्या के बाद एक सम संख्या आती है, तो दोनों संख्याओं को जोड़ा जाना चाहिए (V) यदि एक सम संख्या के बाद एक विषम संख्या आती है जो एक पूर्ण वर्ग नहीं है, तो विषम संख्या का वर्ग है सम संख्या में जोड़ा जाना है
नोट: यदि एक से अधिक शर्तों का पालन किया जाता है तो उस शर्त पर विचार करें जो पहले आती है।
What will be the value of X/Y?
9 15 50 = X
12 25 24 = Y
A) 18
B) 8
C) 5
D) 6
E) None of These

In each of the following questions, two rows of numbers are given. The resultant number in each row is to be worked out separately based on the following rules and the questions below the rows of numbers are to be answered. The operations of numbers progress from the left to the right.

Rules: (I) If an odd number is followed by another odd number then they are to be multiplied.

(II) If an even number is followed by another even number then the first number is to be divided by the second even number

(III) If an even number is followed by the perfect square of an odd number, then the first number is to be subtracted from the second number

(IV) If an odd number is followed by an even number, then the two numbers are to be added (V) If an even number is followed by an odd number which is not a perfect square, then the square of the odd number is to be added to the even number

Note: If more than one condition is followed then consider the condition which comes first.

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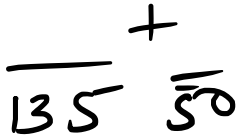
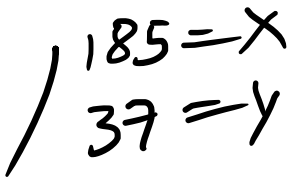
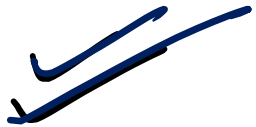




षट्कोणीय व्यवस्था के प्रत्येक कोने पर छह वृत्त (दक्षिणावर्त दिशा में क्रमांक 1 से 6) अंकित हैं। प्रत्येक वृत्त में एक संख्या और एक अक्षर होता है। वृत्त 1 से प्रारंभ करके प्रत्येक वृत्त को 23 से प्रारंभ करके आरोही क्रम में दक्षिणावर्त दिशा में लगातार अभाज्य संख्याएँ निर्दिष्ट की जाती हैं। वर्णमाला क्रम में दक्षिणावर्त दिशा में वृत्त 1 से D से प्रारंभ करके लगातार व्यंजन निर्दिष्ट किए गए हैं।

अब अक्षर और संख्या के इन संयोजनों को इनपुट के रूप में उपयोग करते हुए, हम कुछ आउटपुट की गणना करने के लिए नीचे दिए गए पैटर्न को लागू करते हैं:

Input	Output
[16, E]	[37, C]
[21, A]	[5, Y]
[24, G]	[18, I]
[35, H]	[14, J]



Q. What is the output for all circles respectively ?

Six circles (numbered 1 to 6 in clockwise direction) are inscribed at each corner of the hexagonal arrangement. Each circle consists of a number and a letter. Consecutive prime numbers are assigned starting with 23 to each circle starting with circle 1 in clockwise direction in ascending order. Consecutive consonants are assigned starting with D from circle 1 in clockwise direction in alphabetical order.

Now using these combination of letter and number as inputs, we apply the below given pattern to calculate certain outputs :

Input	Output
[16, E]	[37, C]
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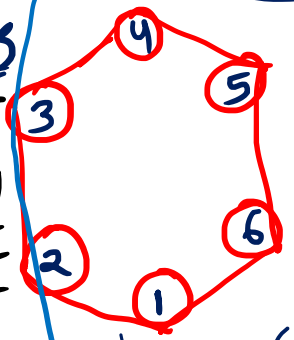
Circle Inputs : Outputs

① → 23, D : 7, F
② → 29, F : 13, H
③ → 31, G : 10, I
④ → 37, H : 16, J
⑤ → 41, J : 17, L
⑥ → 43, K : 19, M



Vowel → −2 → No. → Sum of sq. dig.

Consonant → +2 → odd no. → (1st dig)² + 2nd dig
→ even no. → 1st dig + (2nd dig)²

Q. What is the output for all circles respectively ?