EduTap

RBI Grade B 2024

Quant

Lecture 1

Number Series

7:00 AM

2-3Q

PYQ

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Basic Need to solve Number Series Questions

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- Tables
- Sum
- Multiplication
- Square
- Square root
- Cube
- Cube root
- Basic percentage
- Basic fractions

Average Speed

95 minutes → 100

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Square

$1^2 = 1$

$2^2 = 4$

$3^2 = 9$

$4^2 = 16$

$5^2 = 25$

$6^2 = 36$

$7^2 = 49$

$8^2 = 64$

$9^2 = 81$

$10^2 = 100$

$11^2 = 121$

$12^2 = 144$

$13^2 = 169$

$14^2 = 196$

$15^2 = 225$

$16^2 = 256$

$17^2 = 289$

$18^2 = 324$

$19^2 = 361$

$20^2 = 400$

$21^2 = 441$

$22^2 = 484$

$23^2 = 529$

$24^2 = 576$

$25^2 = 625$

Concept

Cube

$1^3 = 1$

$2^3 = 8$

$3^3 = 27$

$4^3 = 64$

$5^3 = 125$

$6^3 = 216$

$7^3 = 343$

$8^3 = 512$

$9^3 = 729$

$10^3 = 1000$

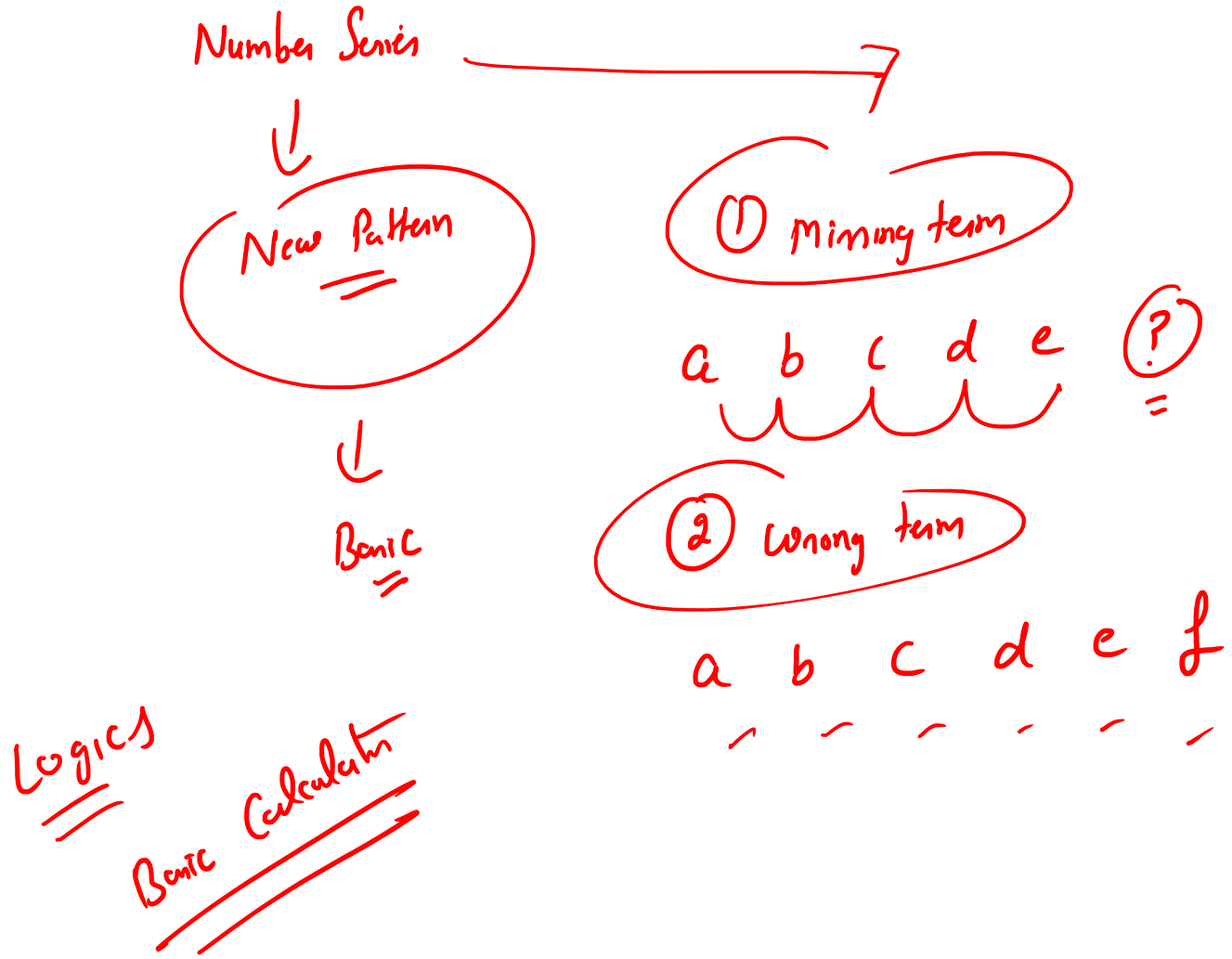
$11^3 = 1331$

$12^3 = 1728$ ✓

$13^3 = 2197$

$14^3 = 2744$

$15^3 = 3375$ ✓✓



Logics

Two Co-terms
diff- shortest value

① Sum

② Subtraction

Two Co-terms
diff- Distant value

③ Multiply

④ Division

2, 3, 5, 8, 12, 17, ? 23

+1 +2 +3 +4 +5 +6

109 101 94 88 83 ?

-8 -7 -6 -5 -4

10 20 60 240 1200 7200 50400 ? =

×2 ×3 ×4 ×5 ×6 ×7 ×8

50400 ÷7 7200 ÷6 1200 ? 60 20

×8 ×5 ×4 ×3

(5) $\times \pm$, $\div \pm$ =

2 — 7 — 23 — 72 — ?

$\times 3+1$ $\times 3+2$ $\times 3+3$

= Practice

(6) Square, Cube, Square $\pm$, Cube $\pm$, Square $\times$, Square $\div$

2 — 6 — 15 — 31 — 56 — 3

+4 +9 +16 +25

2^2 3^2 4^2 5^2 6^2

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(7) Step form

a b c d e f

(8) Illogical f—

(9) double / triple Semi

1. Square, cube
2. ×, ÷, Sum, Sub. —— min
3. Step form
4. Filler / double / triple

Do not take Easy

Practice

Limited seats

I.1-2: Read the following information carefully and answer the questions based on it.

There are two number series given below I and II, having missing numbers A, B, C, and D. You are expected to solve them and answer the question accordingly.

I). 28, 42, 75, 135, (A), (B), 442, 630

II). (C), (D), 132, 140, 152, 168, 188, 212

Q.1) Find the remainder when (A + D) divided by 7?

[1] 5

[2] 6

[3] 3

[4] 4

[5] None of these

Q.2) (Z + 1) is the first term of sequence follows the same pattern as that of series I where Z = unit digit of $(B+C)^D$, find the 5th element of the sequence?

[1] 179

[2] 185

[3] 189

[4] 113

[5] None of these

Q.3) Two missing number series I and II, have missing numbers P, and Q respectively, given below. You are expected to solve them and answer the questions accordingly.

Series I. 50, 75, (P), 147, -22, 267

Series II. 24, 22, 42, (Q), 226, 615

Which of the following statement(s) is/are definitely true.

I). HCF of (P + 1) and Q is 3.

II). (Q-12) is a perfect square.

III). (P+Q + 1) is exactly divisible by 6.

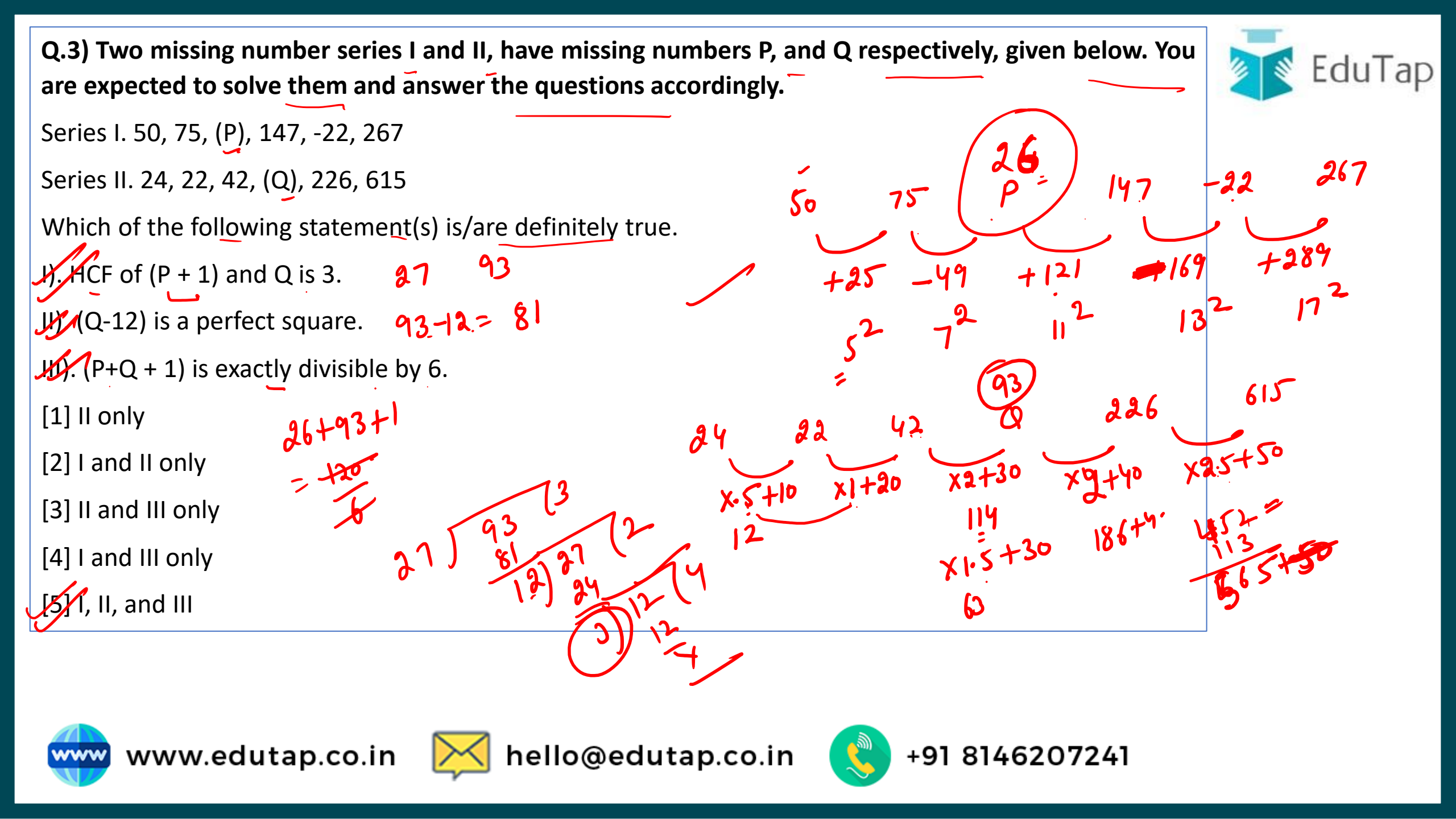
[1] II only

[2] I and II only

[3] II and III only

[4] I and III only

[5] I, II, and III



Q.4) Two series (1) and (II) are given below with missing term P in series (I) and missing term Q in series (II).

(I). 8, 13, 22, 39, P, 137

(II). 139, 90, Q, 29, 13, 4

Find that which of the following is/are true?

A. Ratio of P to Q is 4: 3.

B. √(P-8) =√(Q-5)-1

C. Sum of P and Q is a multiple of 24.

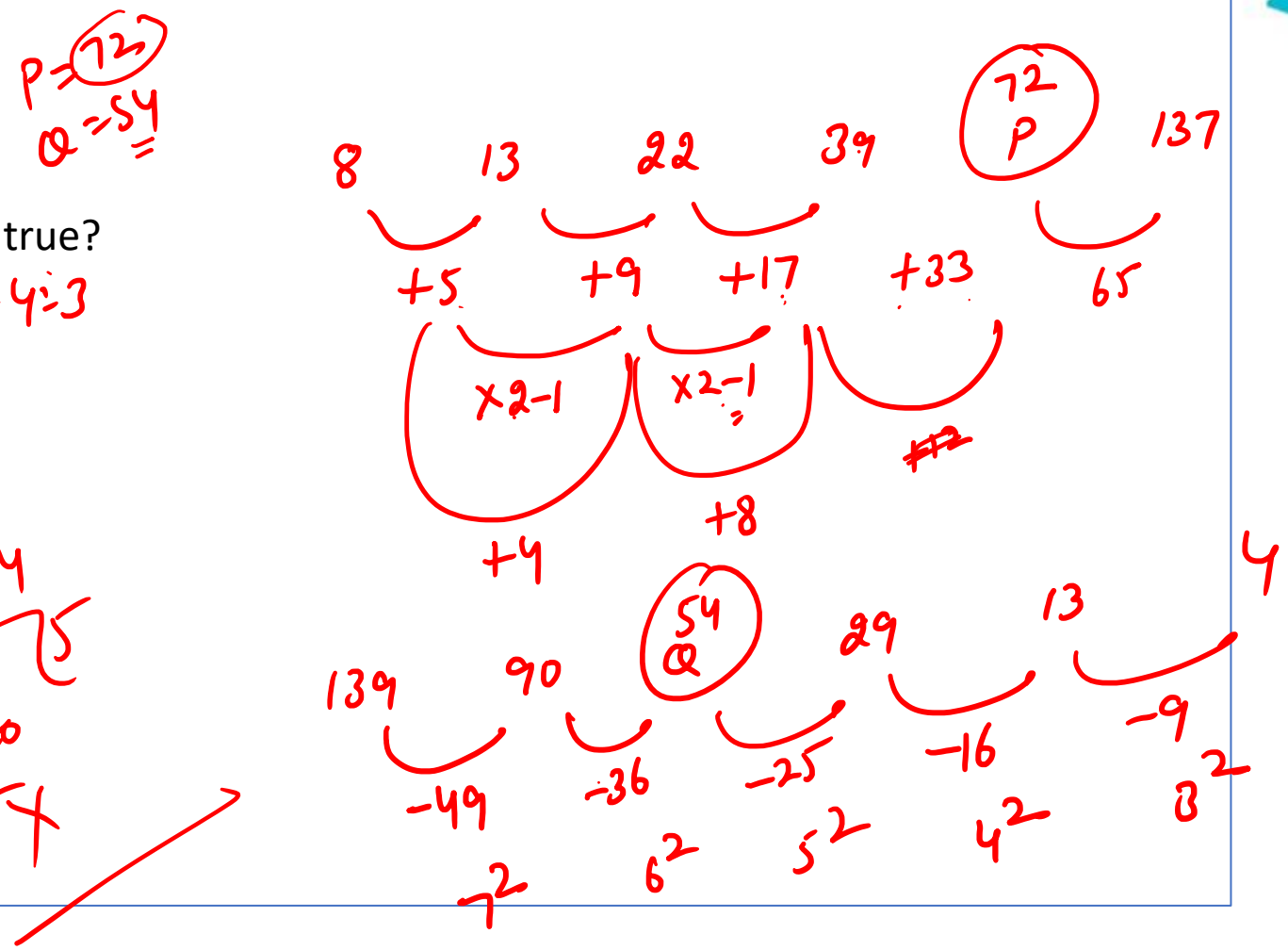
[1] Only A and B

[2] All are true

[3] None is true

[4] Only A

[5] Only C



The below are two series. Series I follows a certain pattern, follow the same pattern in Series II and answer the question given below :

Q.5) Series I : 1, 2, 6, 30, 210

Series II : 1.5 ..... If 3465 is the n^{th} term find the value of n.

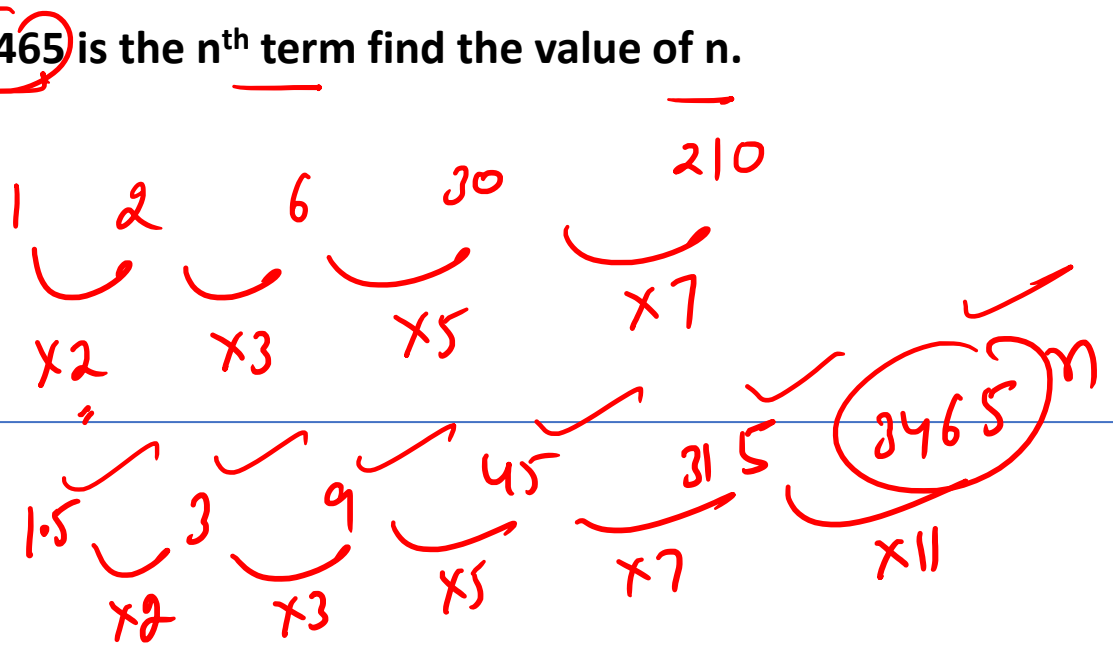
[1] 5

[2] 7

[3] 6

[4] 9

[5] 11



Prime No.

Q.6) The given expressions form a series. Find the odd one out.

x, (2x - 12), 1.5x, 3x, (5x + 20), 22.5x such that x = √144

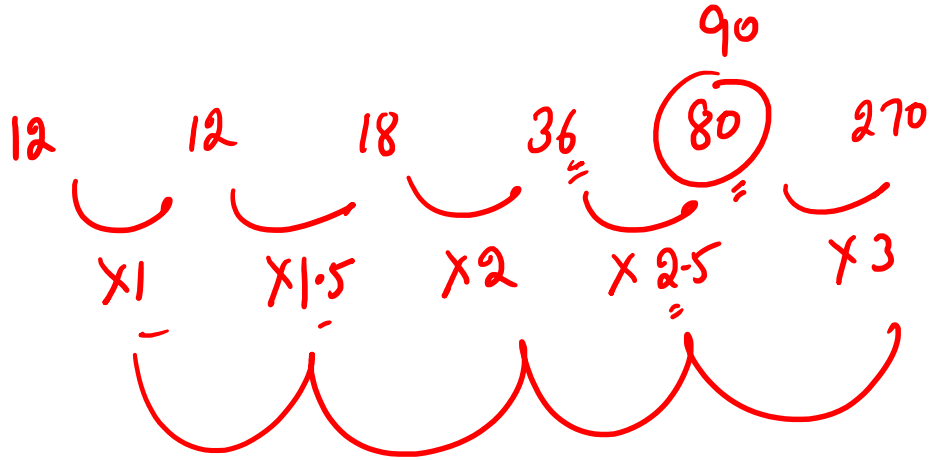
[1] 22.5x

[2] 3x

[3] x

[4] 5x + 20

[5] None of these

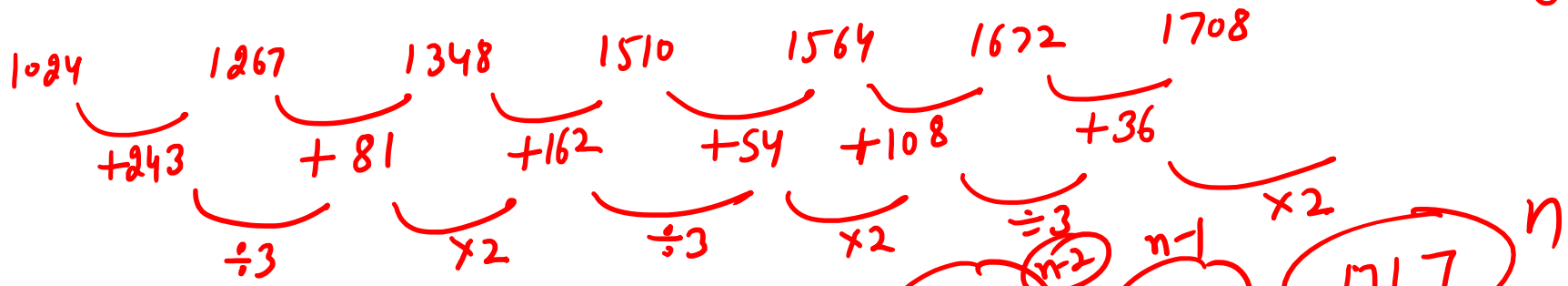


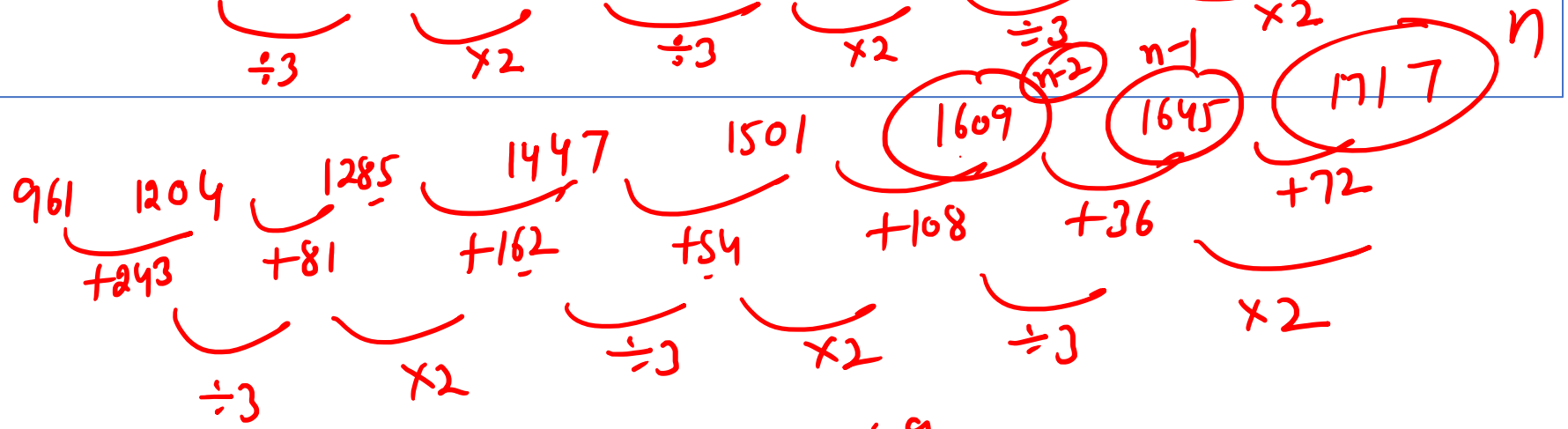
The questions below are based on the given Series-I. The series-I satisfy a certain pattern, follow the same pattern in Series-II and answer the questions given below.

Q.7) I. 1024, 1267, 1348, 1510, 1564, 1672, 1708

II. 961 …. 1717. If 1717 is nth term, then what value should come in the place of (n –2) th term?

[1] 1876
[2] 1709
[3] 1609
[4] 1568
[5] 1436





$n-2 = 1609$ th

Q.8) (I) 3 , 35 , A , 1160 , 4660 , 13998

(II) 80 , 42 , B , 13.5 , 8.75 , 6.375 , 5.1875

Solve both the above series and find which of the following is correct.

Home Work

(A) 10B – A = 4

(B) 16^2 = A + B + 5

(C) 10B < A

[1] Only A
[2] Only B
[3] Only C
[4] Both A and B
[5] None of these

Q.9) A number series given below as I. A second number series as II having first term same as the wrong term of the series I. Find 3rd term of series II?

Series I. 3, 7, 22, 95, 479, 2879

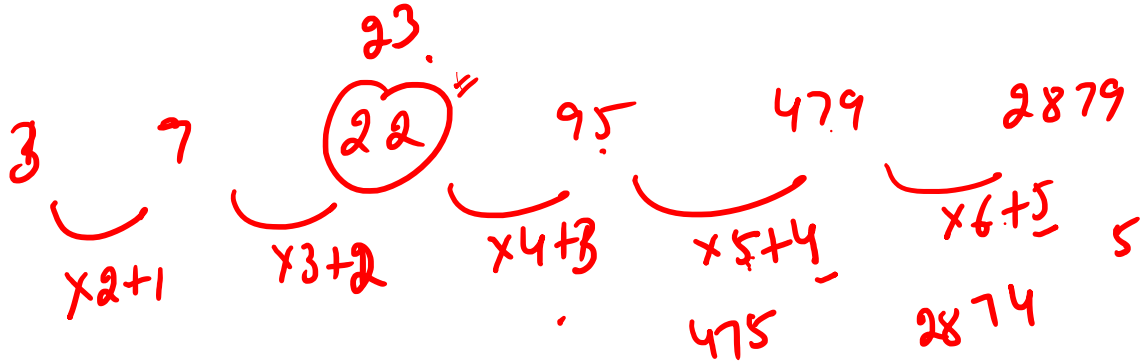
A. 541

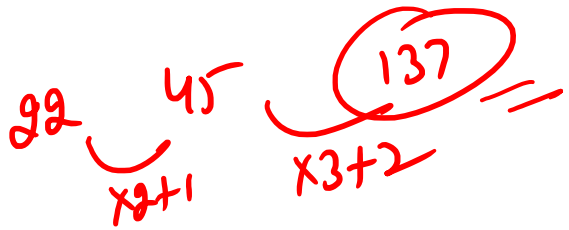
B. 137

C. 561

D. 551

E. None of these





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Direction (10 – 11): Read the following information carefully and answer the questions based on it.

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A sequence of numbers is given to you as below:

18 (A) (B) (C) (D) 124

Where, $A = P^2 - Q$

$B - A = (P + 1)^2 + Q$

$C - B = (P + 2)^2 + Q$

$D - C = (P + 3)^2 + Q$

P = HCF of L and M, where L and M are co – primes

Q = Smaller root of $K^2 - 2K - 8 = 0$

Q.10) How many numbers are divisible by 3, in the given sequence?

A. 2

B. 4

C. 3

D. 6

E. None of these

Q.11) Find the value of $(A^2 + 3B + 5C - 4D)$.

A. – 20

B. - 10

C. - 18

D. - 30

E. None of these

A series is given below where the first term is marked as (a), the second as (b), third as (c) and so on.

Series – 100, 95, 105, 88, 114, ?

(a) (b) (c) (d) (e) (f)

Q.12) What is the value of '(f)'?

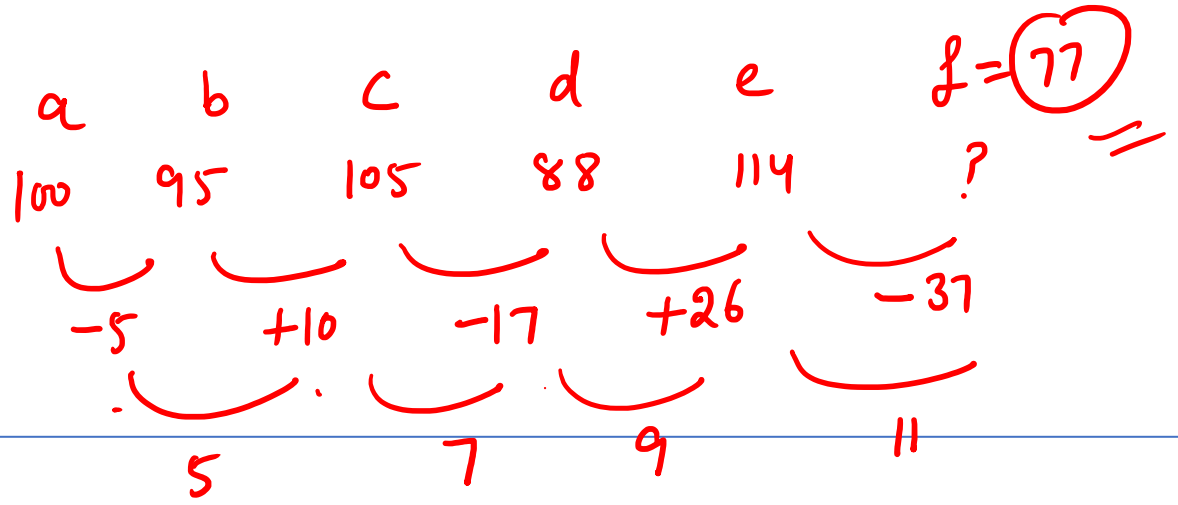
[a] 67

[b] 87

[c] 77

[d] 74

[e] 81



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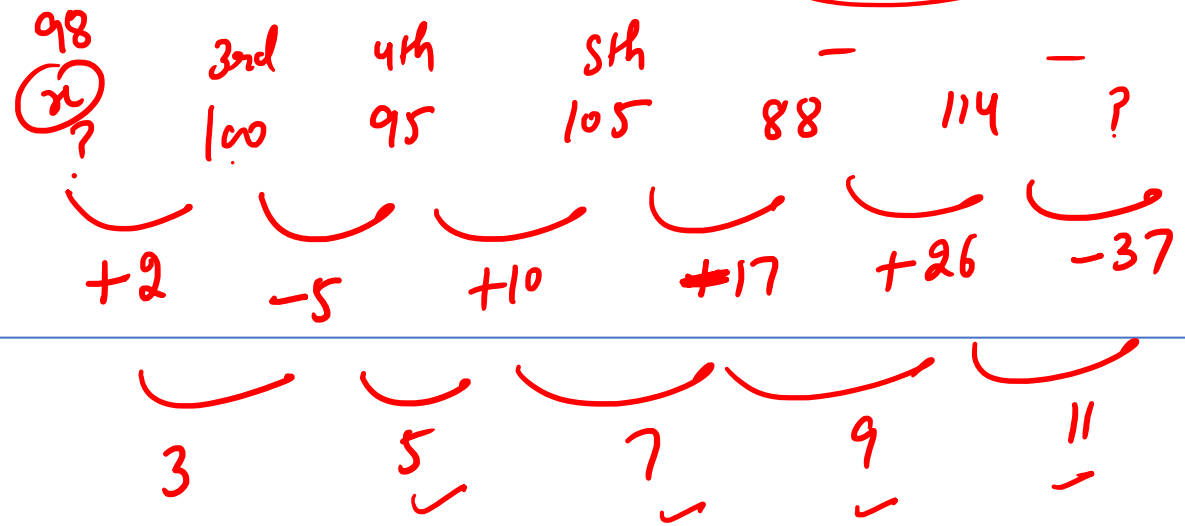
A series is given below where the first term is marked as (a), the second as (b), third as (c) and so on.

Series – 100, 95, 105, 88, 114, ?

(a) (b) (c) (d) (e) (f)

Q.13) If a new series is made following the same pattern of the above series, where (a) is the third term, (b) is the fourth term, (c) is the fifth term and so on. Then find the second term of such a series.

[a] 99
[b] 98
[c] 102
[d] 111
[e] None of the above



A series is given below where the first term is marked as (a), the second as (b), third as (c) and so on.

Series – 100, 95, 105, 88, 114, ?

(a) (b) (c) (d) (e) (f)

Q.14) What minimum number should be added to the 'f+20' to get to the nearest perfect square.

[a] 4

[b] 1

[c] 7

[d] 3

[e] 6

$f = 77$

$77 + 20 = 97 + 3 = 100$

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Q.15) The series given below contains a missing number 'P'. Find the value of 'P' and determine which among the given three statement(s) is/are true.

74, 290, 241, 753, 672, 'P', 1551

I: The nearest perfect square number to 'P' is 1600

II: 'P' is divisible by 11

III: (P + 28) is a multiple of 50.

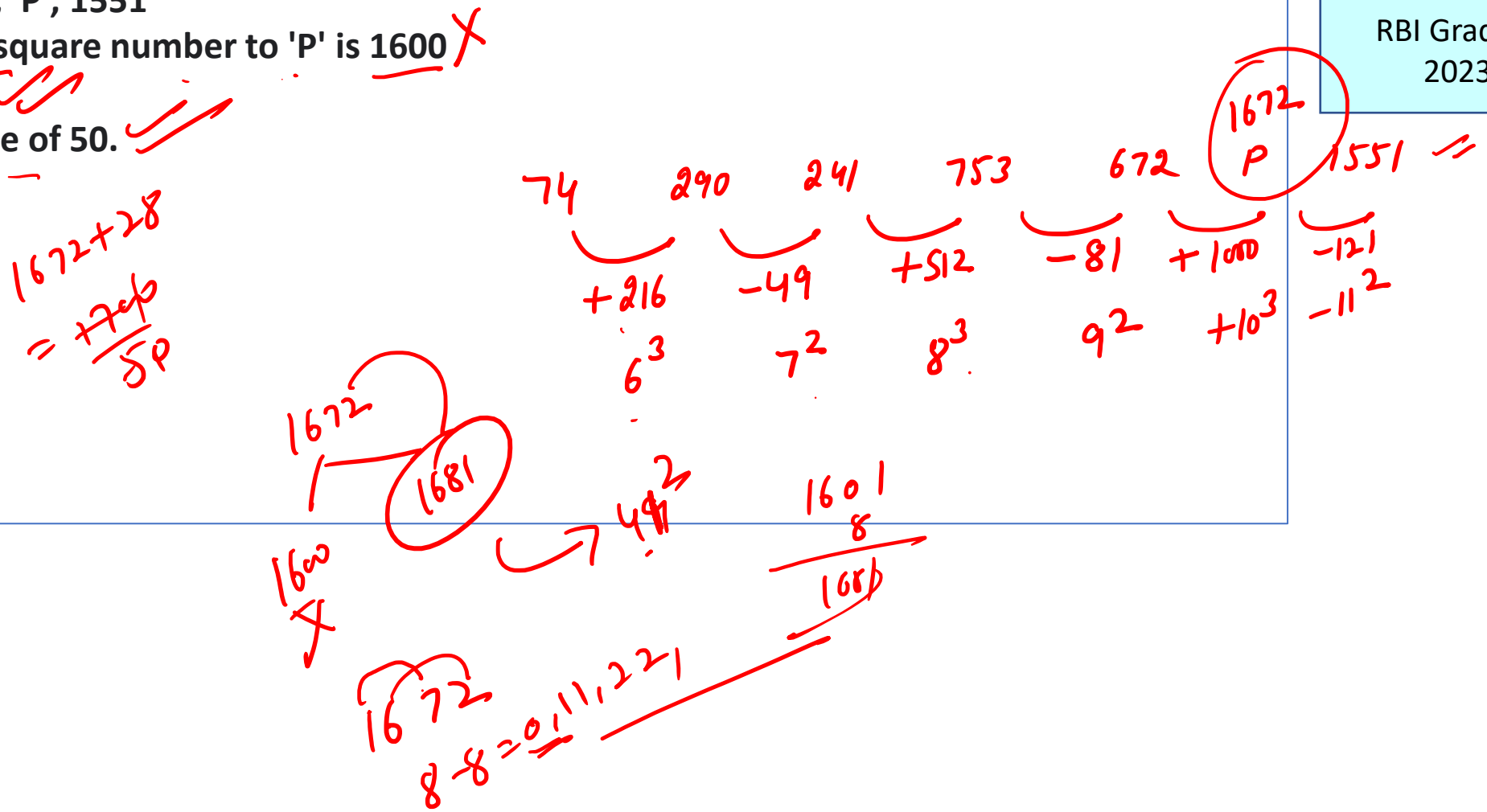
[1] Only I

[2] Only II

[3] Only I and II

[4] Only II and III

[5] Only III



Q.16) Given below are two number series I and II where the missing numbers in series I and II are 'P' and 'Q', respectively. Find the value of 'P' and 'Q' and find which among the given options gives the correct value of (P - Q)

I: 5000, 4000, 3000, 2100, P, 819

II: 4, 6, 15, 56, Q, 1644

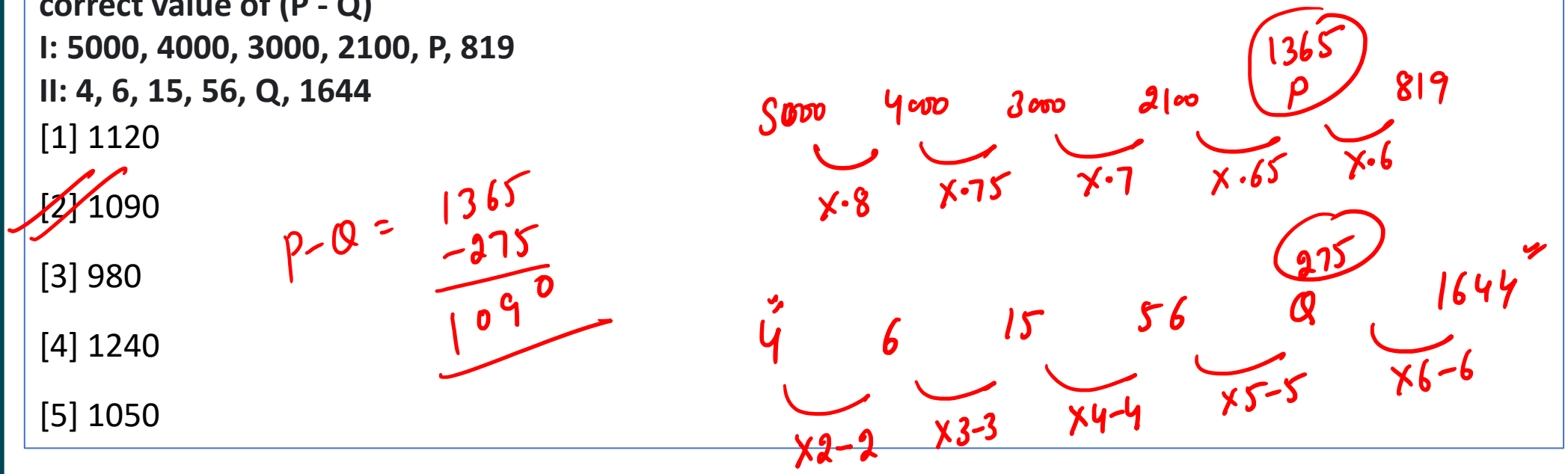
[1] 1120

[2] 1090

[3] 980

[4] 1240

[5] 1050



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Q.17) Given below are two number series I and II where the missing numbers in series 'I' and 'II' are 'P' and 'Q', respectively. Find the value of 'P' and 'Q' and find which among the given options gives the L.C.M of 'P' and 'Q'.

I: 77, 106, 48, P, 19, 164

II: 141, 98, Q, 63, 71, 96

[1] 1080

[2] 1200

[3] 724

[4] 960

[5] 1440

Home Work

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Thank You

26th
28th — 27th – Practice

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