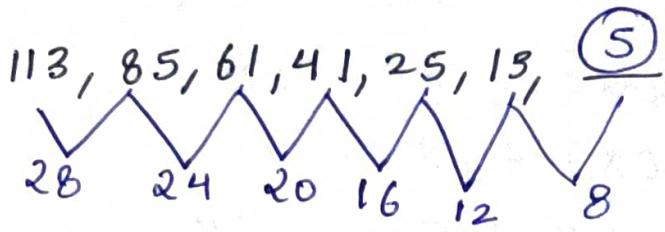


# # Number Series

## Type ①

Single difference



(AP)

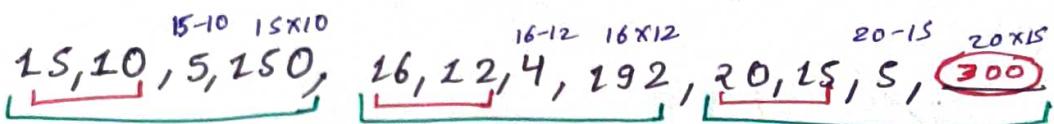
$$d \left\{ \begin{array}{l} = \\ + \end{array} \right. \quad \text{Ex: } \quad \begin{array}{cccccc} 12 & & 20 & & 28 & 36 \end{array}$$

(GP)

$$x \left\{ \begin{array}{l} \times \\ \div \end{array} \right. \quad \begin{array}{cccccc} \frac{1}{27} & & \frac{1}{9} & & \frac{1}{3} & 1 \end{array}$$

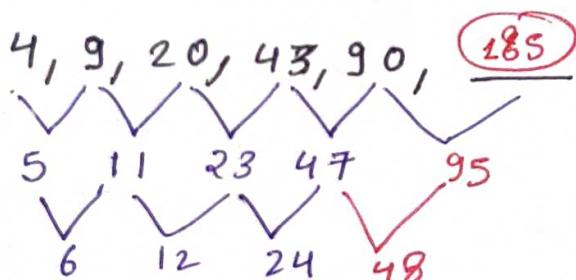
## Type ②

Set of 4 numbers



## Type ③

difference of difference



## Type ④

Multiplication

(+)

Addition

$$4, 9, 20, 43, 90, \underline{185}$$

$$4 \times 2 + 1 = 9$$

$$9 \times 2 + 2 = 20$$

$$20 \times 2 + 3 = 43$$

$$43 \times 2 + 4 = 90$$

$$90 \times 2 + 5 = \underline{185}$$

WB  
Q14

3, 10, 33, 104, 319

$$\begin{aligned} 3 \times 3 + 1 &= 10 \\ 10 \times 3 + 3 &= 33 \\ 33 \times 3 + 5 &= 104 \\ 104 \times 3 + 7 &= 319 \end{aligned}$$

\* +21+41+6

7 prime no.  
wall series  
log most  
probably

Type 5

Use of Squares

~~for self purpose~~

24, 12, 12, 18, 36, 90

24            24

~~24 × 1.5~~    12

12 × 1       12

12 × 1.5      18

18 × 2       36 ✓

36 × 2.5    90

2, 8, 26, 80, 242

2

2

$2 \times 3 + 2$

8

$8 \times 3 + 2$

26

$26 \times 3 + 2$

80

$80 \times 3 + 2$

242

Type 6

Use of Cubes

13, 19, 30, 48, 75, 113

13 + (3+3)    29

19 + (6+5)    30

30 + (11+7)    48

48 + (18+9)    75

75 + (27+11)    113 ✓

5, 16, 49, 104, 181, 280

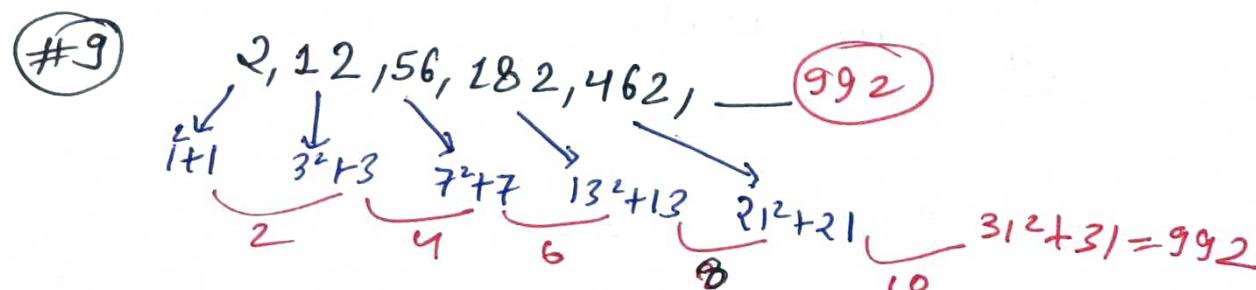
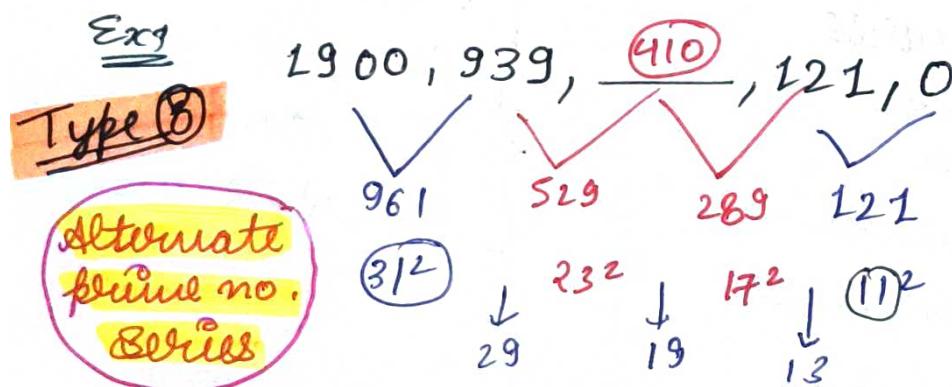
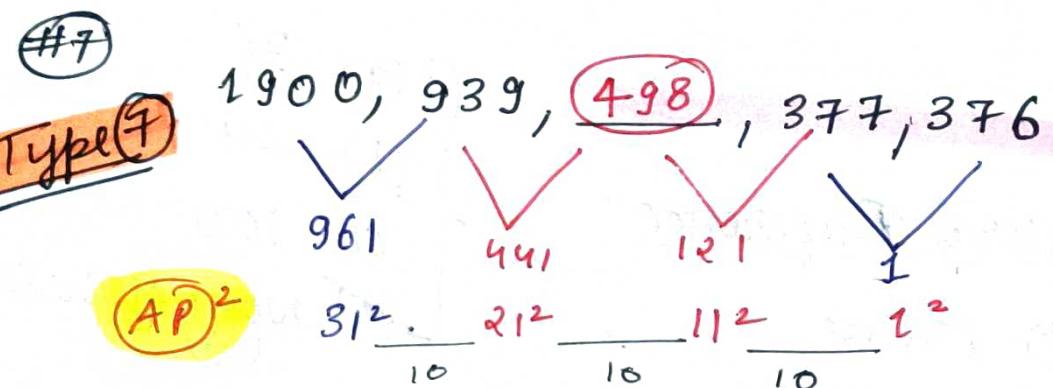
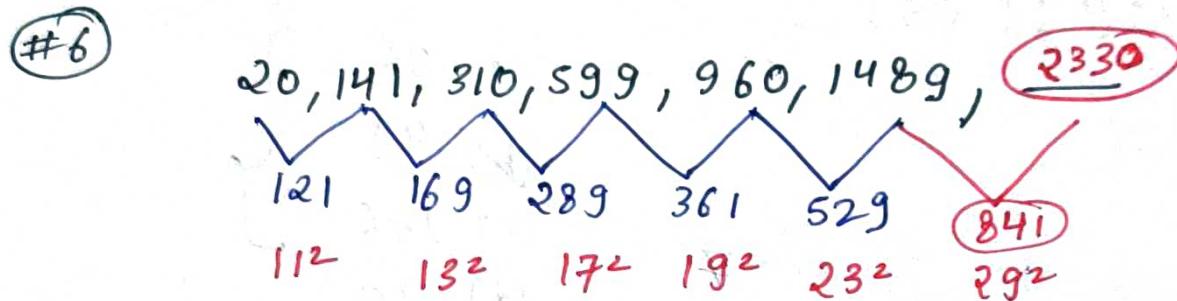
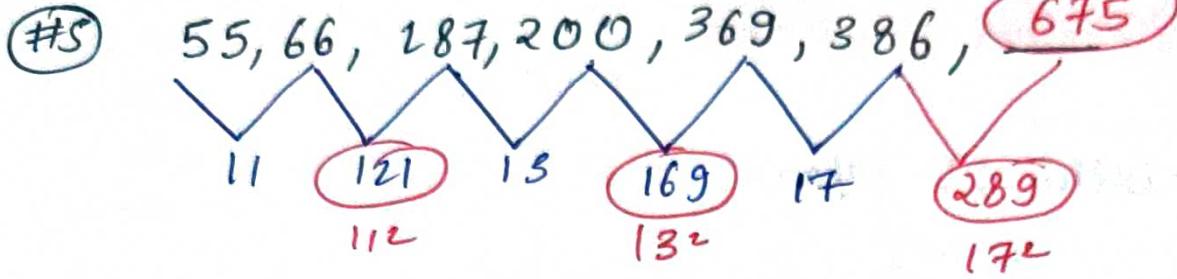
5 + (11×1)    16

16 + (11×3)    49

49 + (11×5)    104

104 + (11×7)    181

181 + (11×9)    280



$$\left\{ \begin{array}{l} * 992 \rightarrow 31^2 + 31 \\ * 150 \rightarrow 5^2 + 53 \end{array} \right\}$$

#13

## Number Analogy

*capital* *capital*  
 India : Delhi :: Japan : Tokyo

#14

$$4 : 9 :: 25 : \underline{\quad}$$

(Addition)  $2^2 + 3^2$

$5^2 + 6^2$

(a) 36

(b) 49

(c) 126

(d) 30

(better preference)  
Prime (2)  $\rightarrow$  (3)

Prime (5)  $\rightarrow$  (7)

} {

## Number System

### Order of Preference

- ① Prime
- ② Cubes
- ③ Squares
- ④ Bracket
- ⑤ Open
- ⑥ Division
- ⑦ Multiplication
- ⑧ Addition
- ⑨ Subtraction

- { (a) 36  
 (b) 64  
 (c) 100  
 (d) None of these (49)}

- { (a) 36  
 (b) 64  
 (c) 100  
 (d) 225}

$$\textcircled{1} \quad 4, 3, 4, 7, 15, \quad \textcircled{38-5}$$

$\times 0-5$      $\times 1$      $\times 1-5$      $\times 2$      $\times 2-5$   
 $+1$      $+1$      $+1$      $+1$      $+1$

$$\textcircled{2} \quad 11, 14, 19, 28, 43, \quad \textcircled{66}$$

$\underline{3}$      $\underline{5}$      $\underline{9}$      $\underline{15}$      $\underline{25}$   
 $2$      $4$      $6$      $8$

$$\textcircled{3} \quad 23, 50, 108, \underline{232}, 492, \quad \textcircled{1028}$$

$\times 2$      $\times 2$      $\times 2$      $\times 2$      $\times 2$   
 $+4$      $+8$      $+16$      $+28$      $+44$   
 $+4$      $+8$      $+12$      $+16$

$$\textcircled{6} \quad 20, \textcircled{23}, 29, 40, 58, 85$$

$\underline{+6}$      $\underline{+11}$      $\underline{+18}$      $\underline{+27}$   
 $+5$      $+7$      $+9$

$$\textcircled{8} \quad 85, 53, 133, 22, 17, \quad \textcircled{15}$$

$\underline{-32}$      $\underline{-20}$      $\underline{-11}$      $\underline{-5}$      $\underline{-2}$   
 $+12$      $+9$      $+6$      $+3$

$$\textcircled{9} \quad 19, 30, 44, 67, 117, \quad \textcircled{248}$$

$\underline{+11}$      $\underline{+14}$      $\underline{+23}$      $\underline{+50}$      $\underline{+131}$   
 $+3$      $+9$      $+27$      $+81$

$$\textcircled{11} \quad 7, 24, 58, 109, \textcircled{177}, 262$$

$\underline{+17}$      $\underline{+54}$      $\underline{+51}$      $\underline{+68}$      $\underline{+85}$

$$\textcircled{13} \quad 7413, 7422, 7440, \quad \textcircled{7467}$$

$\underline{9}$      $\underline{18}$      $\underline{27}$      $\underline{+36}$      $\underline{+45}$

$$\textcircled{14} \quad 6, 26, 134, 666, 3334, 16666, \quad \textcircled{83326}$$

$\times 5$      $\times 5$      $\times 5$      $\times 5$      $\times 5$   
 $-4$      $+4$      $-4$      $+4$      $-4$      $+4$

} xeli last ke digit  
dekh kar logic  
lagaya hoi }

$$\textcircled{5} \quad 4, 7, 13, 25, 49, \quad \textcircled{97}$$

$\times 2$      $\times 2$      $\times 2$      $\times 2$      $\times 2$   
 $-1$      $-1$      $-1$      $-1$      $-1$

$$\textcircled{7} \quad 5, 7, 17, 55, 225, \quad \textcircled{1131}$$

$\times 1$      $\times 2$      $\times 3$      $\times 4$      $\times 5$   
 $+2$      $+3$      $+4$      $+5$      $+6$

\* ① agar aap paasko no. hain toh +,- karke dekho  
 \* ② agar last mei ek dum se bade no. hoi toh last ke 2 no. dekh ke idea lagao. kuch na kuch multiply karke + ya - kijiya hoga

$$\textcircled{10} \quad 7, 9, 18, 46, 172, \quad \textcircled{237}$$

$\underline{+2}$      $\underline{+9}$      $\underline{+28}$      $\underline{+65}$      $\underline{+126}$   
 $1^3+1$      $2^3+1$      $3^3+1$      $4^3+1$      $5^3+1$

$$\textcircled{12} \quad 7-4, 9-2, 11-4, 14, 17, \quad \textcircled{20-4}$$

$\underline{+1-8}$      $\underline{+2-2}$      $\underline{+2-6}$      $\underline{+3}$      $\underline{3-4}$   
 $0-4$      $0-4$      $0-4$      $0-4$

Q36725-S

\*  $2, 1, 2, 15, \underline{236}, ?$  (5895)

$$\begin{array}{cccccc} x1 & x4 & x9 & x16 & x25 & x36 \\ -1 & -2 & -3 & -4 & -5 & -6 \end{array}$$

\*  $3, 4, 12, 45, \underline{296}, ?$  (1005)

$$\begin{array}{cccccc} x1 & x2 & x3 & x4 & x5 & x6 \\ +1 & +9 & +9 & +16 & +25 & \end{array}$$

\*  $\underline{354}, 180, 64, 21, 10 \cdot 2, ?$  (87)

$$\begin{array}{cccccc} \div 2 & \div 3 & \div 4 & \div 5 & \div 6 & \\ +3 & +4 & +5 & +6 & +7 & \end{array}$$

Logic

large number  
pair focus karte  
hai pehle

\*  $3, 4, 16, 75, 364, -$

$$\begin{array}{l} 3 \rightarrow 3 \\ 3 \times 1 + 1 \rightarrow 4 \\ 4 \times 2 + 8 \rightarrow 16 \\ 16 \times 3 + 27 \rightarrow 75 \\ 75 \times 4 + 64 \rightarrow 364 \\ 364 \times 5 + 125 \rightarrow 1945 \end{array}$$

\*  $2, 5, 9, 19, 37, ?$

$$\begin{array}{l} 2 \rightarrow 2 \\ 2 \times 2 + 1 \rightarrow 5 \\ 5 \times 2 - 1 \rightarrow 9 \\ 9 \times 2 + 1 \rightarrow 19 \\ 19 \times 2 - 1 \rightarrow 37 \\ 37 \times 2 + 1 \rightarrow 75 \end{array}$$

\*  $7714, 7916, 8109, ?$

$$\begin{array}{ll} 7+7=14 & 7+9=16 \\ 7+9=16 & 8+1=09 \\ 77 \overset{''}{1} 4 & 79 \overset{''}{1} 6 \\ 81 \overset{''}{0} 9 & 83 \overset{''}{1} 1 \end{array}$$

(3) 8509      (4) 8515

\*  $3, 15, 35, 63, ?$

$$\begin{array}{cccccc} +12 & +20 & +20 & +36 \\ 2^2-1 & 4^2-1 & 6^2-1 & 8^2-1 & 10^2-1 \\ 3 & 15 & 35 & 63 & ? \end{array}$$

(99)

(1135)

\*  $9, 27, 31, 155, 161, 1227, ?$

$$\begin{array}{llll} 9 & 27 & 31 & 155 \\ \times 3 & +4 & \times 5 & +6 \\ 27 & 31 & 155 & 161 \end{array}$$

\*  $15, 31, 64, 131, -$

$$\begin{array}{lll} 15 \rightarrow 15 & 15 \times 2 + 1 \rightarrow 31 & 31 \times 2 + 2 \rightarrow 64 \\ 64 \times 2 + 3 \rightarrow 131 & 131 \times 2 + 4 \rightarrow 266 & \end{array}$$

\*  $4, 18, 48, 100, 180, ?$  (294)

$2^3 - 2^2 = 4$      $3^3 - 3^2 = 18$

$4^3 - 4^2 = 48$      $5^3 - 5^2 = 100$

$6^3 - 6^2 = 180$      $7^3 - 7^2 = 294$

\*  $3, 10, 201, ?$  (10202)

$$\begin{array}{lll} 3 & 10 & 201 \\ 3^2 + 1 & 10^2 + 1 & 101^2 + 1 \end{array}$$

\*  $1, 2, 3, 14, 5, 34, 7, 62, ?$  (9)

$$\begin{array}{llll} 1 & 2 & 3 & 14 \\ 3 \times 1 - 1 & 5 \times 3 - 1 & 2 \times 5 - 1 & 9 \times 7 - 1 \end{array}$$

\*  $3, 3, 11, 19, 59, ?$  (115)

$$\begin{array}{llll} 3 & 3 & 11 & 19 \\ \times 2 & \times 3 & \times 2 & \times 3 \\ -3 & +2 & -3 & +2 \\ & & & -3 \end{array}$$

$$\textcircled{15} \quad 45000, 1800, 90, 6, 0.6, - \\ \frac{1}{\div 25} \quad \frac{1}{\div 20} \quad \frac{1}{\div 15} \quad \frac{1}{\div 10} \quad \frac{1}{\div 5} \quad \textcircled{0.12}$$

## (✓) Missing / wrong number Series

$$\textcircled{16} \quad \begin{array}{c} 108 \\ 2, 3, 6, 18, \cancel{109}, 1944, 209952 \\ \cancel{\times} \quad \cancel{\times} \quad \times \quad \times \quad \times \end{array} \quad \rightarrow$$

109 (along)  
108 (, correct)

$$\begin{array}{r}
 \textcircled{17} \quad 2, \textcircled{13}, 27, 113, 561, 3369, 23581 \\
 x^2 \quad x^3 \quad \boxed{x^4 \quad x^5 \quad x^6 \quad x^7} \quad \{ \text{lagwagliz} \\
 +9 \quad -12 \quad +5 \quad -4 \quad +3 \quad -2 \\
 \underbrace{\phantom{+9}}_{+7} \quad \underbrace{-6}_{\phantom{+7}}
 \end{array}$$

13 (wrong)  
11 (correct)

$$\begin{array}{ccccccccc} \textcircled{18} & 3, 9, 23, 99, 479, 2881, 20159 \\ x_2 & x_3 & x_4 & x_5 & x_6 & x_7 \\ +3 & -4 & +5 & -6 & +7 & -8 \end{array}$$

99 (Wrong)  
97 (Right)

$$(19) \quad 7, 4, 6, 9, 20, 52.5, 260.5$$

X0.5	X1	X1.5	X2	X2.5	X3
F0.5	+1	H.S	+2	+2.5	+3

6 (Wrong)  
5 (Right)

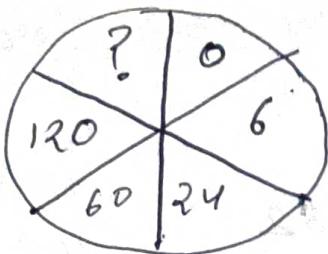
Combination of strong number + missing.

$$\textcircled{1} \quad \begin{array}{ccccccccc} & 10 & & & & & & & \\ 6, & \cancel{9}, & 18, & 36, & \cancel{82} & , & 216, & 660, & 2323 \\ \cancel{0-5} & x1 & 1-5 & 2-5 & 8-2-5 & x3 & x3-5 & \\ +7 & +8 & +9 & +10 & +11 & +12 & +13 & \end{array}$$

$$\textcircled{2} \quad 8, 12, 18, \cancel{26}^{27}, 40.5, 60.75, -136.6875 \\ x1.5 \quad \boxed{91.125}$$

# Find Missing Numbers

①



$$0, 6, 120, 24, 60, 120, \dots$$

? 10

$1 \times 1, 2 \times 2, 3 \times 3, 4 \times 4, 5 \times 5, 6 \times 6$

②

?	4	4
2880	x1	x2
480	x3	x4

96	24	8
x5	x6	x7

$$4, 4, 8, 24, 96, 480, 2880, \dots$$

? 0 160

③

8	1	6
3	5	7
4	?	2

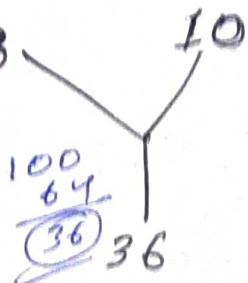
$\Rightarrow 15$   
 $\Rightarrow 15$   
 $\Rightarrow 15$

15      15      15

↓      ↓      ↓

9

④



Type ① → Row

8	1	6	15
3	5	7	15
4	?	2	15

↓      ↓      ↓

9

6	6	8
5	7	5
4	3	?
120	126	320

$$6 \times 5 \times 4 = 120$$

$$6 \times 7 \times 5 = 210$$

$$8 \times 5 \times x = 320$$

$x = 8$

5	4	3	144
7	8	6	441
6	9	?	196

$$(5+4+3)^2 = 144$$

$$(7+8+6)^2 = 441$$

$$(6+9+x)^2 = 196$$

$x = -1$

12	13	5
15	17	8
24	?	7

$$12^2 + 5^2 = 13^2$$

$$15^2 + 8^2 = 17^2$$

$$24^2 + 7^2 = 25^2$$

6/2	11x2	25
8/2	6x2	16
12/2	5x2	?

2	3	17
3	4	145
2	5	?

$$2^3 + 3^2 = 17$$

$$3^4 + 4^3 = 145$$

$$2^5 + 5^4 = 57$$

6	15	20
8	4	5
3	5	20
51	65	?

$$6 \times 8 + 3 = 51$$

$$15 \times 4 + 5 = 65$$

$$20 \times 5 + 20 = 120$$

3	9	6	36	5	25
2	4	4	16	3	9
1	1	3	9	2	4
6	13	?			

72	24	6
96	16	12
108	?	18

$$\frac{24 \times 6}{2} = 72$$

$$\frac{16 \times 12}{2} = 96$$

$$\frac{x \times 18}{2} = 108$$

$$x = 12$$

16	210	14
14	156	12
12	?	10

$$\frac{16+14}{2} = 15$$

$$\frac{14+12}{2} = 13$$

$$\frac{12+10}{2} = 11$$

$$15^2 - 13^2 = 156$$

$$13^2 - 11^2 = 116$$

9(110)

$$\frac{72 \times 2}{6} = 24$$

$$\frac{96 \times 2}{12} = 16$$

$$\frac{108 \times 2}{18} = 12$$

1	7	9
2	14	?
3	105	117

$$\frac{105}{7} = 15 - 1 = 14$$

$$\frac{3}{1} = 3 - 1 = 2$$

$$\frac{117}{9} = 13 - 1 = 12$$

9	8	7
6	7	8
5	4	6
260	214	?

$$9 \times 6 \times 5 = 270 - 10 = 260$$

$$8 \times 7 \times 4 = 224 - 10 = 214$$

$$7 \times 8 \times 6 = 336 - 10 = 326$$

5	6	3
25	42	21
21	100	20
26	107	?

$$\frac{25}{5} + 21 = 26$$

$$\frac{42}{6} + 100 = 107$$

$$\frac{21}{3} + 20 = 27$$

?	19	47
21	22	40
1	20	50
20	23	43

17	14	15
8	7	6
3	3	?
59	49	31

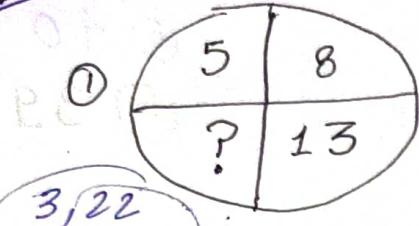
$$17 \times 3 + 8 = 51$$

$$14 \times 3 + 7 = 49$$

$$5 \times 7 + 6 = 31$$

$$S = S$$

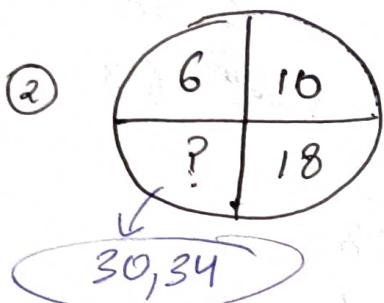
## Type 2



3, 22  
4, 20

③  $\begin{array}{r} \text{P} \\ \times 2 \\ -1 \end{array}, \begin{array}{r} 5 \\ \times 2 \\ -2 \end{array}, \begin{array}{r} 8 \\ \times 2 \\ -3 \end{array}, \begin{array}{r} 13 \\ \times 2 \\ -4 \end{array}, ? \rightarrow 22 \end{array}$

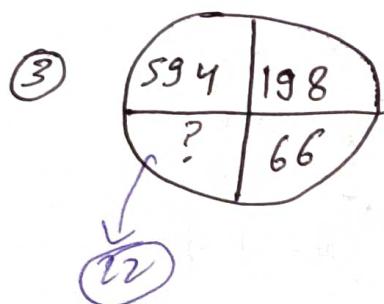
④  $\begin{array}{r} 1, 5, 8, 13, 20 \\ +1 +3 +5 +7 \end{array}$



30, 34

$\begin{array}{r} 6, 10, 18, ? \\ +4 +8 +12 \end{array} \rightarrow 20$

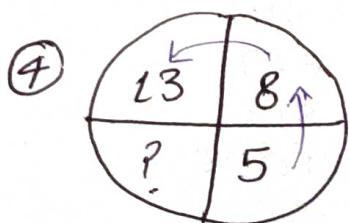
$\begin{array}{r} 6, 10, 18 \\ +4 +8 +16 \end{array} \rightarrow 34 \end{array}$



22

(A) 11 (B) 12 ~~(C) 22~~ (D) 33

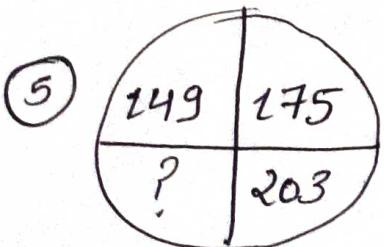
22  $\begin{array}{r} 66, 198, 594 \\ \times 3 \quad \times 3 \quad \times 3 \end{array}$



$\begin{array}{r} 5, 8, 13, ? \\ +3 +5 +7 \end{array} \rightarrow 20$

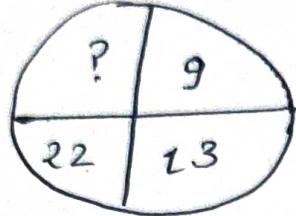
$\begin{array}{r} 5, 8, 13, ? \\ \times 2 \quad \times 2 \quad \times 2 \\ -2 \quad -3 \quad -4 \end{array} \rightarrow 22$

$\begin{array}{r} 5, 8, 13, ? \\ +8 = 13 \\ 8 + 13 \end{array} \rightarrow 21$



22  $\begin{array}{r} 249, 175, 203, 233 \\ +24 +26 +28 +30 \end{array}$

⑥

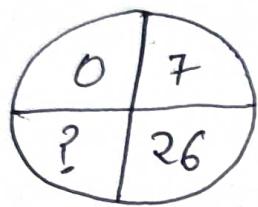


$$9, 13, 22, ? \rightarrow 38$$

$\underbrace{+4}_{2^2}$     $\underbrace{+9}_{3^2}$     $\underbrace{+16}_{4^2}$

- 38  
 44  
 40  
 39

⑦

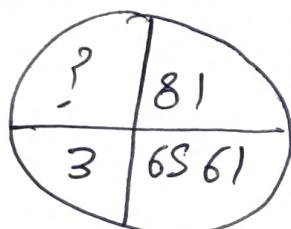


$$0, 7, 26, ? \rightarrow 63$$

$1^3 - 1$     $2^3 - 1$     $3^3 - 1$     $4^3 - 1$

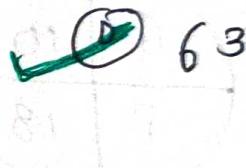
- 45  
 60  
 50

⑧

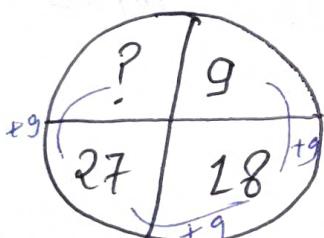


$$\begin{aligned} 3^2 &= 9 \\ 9^2 &= 81 \\ 81^2 &= 6561 \end{aligned}$$

- 9  
 18  
 24  
 27



⑨

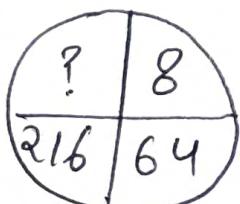


$$9, 18, 27 \rightarrow 36$$

$\underbrace{+9}_{+9}$     $\underbrace{+9}_{+9}$

- 40  
 39  
 36  
 44

⑩

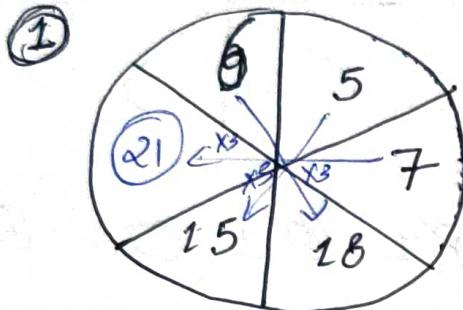


$$8, 64, 216 \rightarrow 512$$

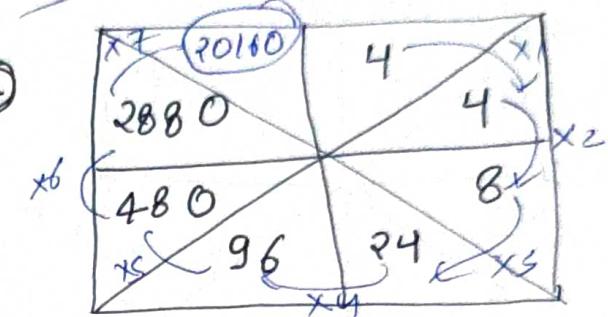
~~$2^3, 4^3, 6^3, 8^3$~~

- 343  
 729  
 512  
 1000

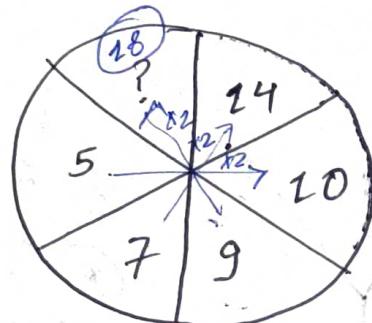
Type ③  
Opposite Series



②

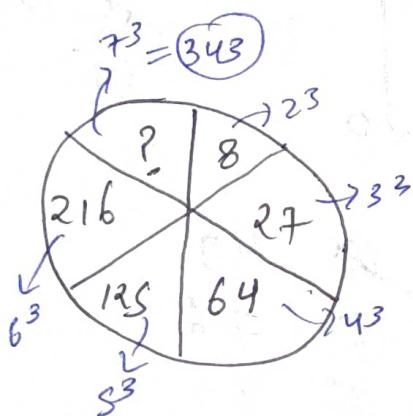


③



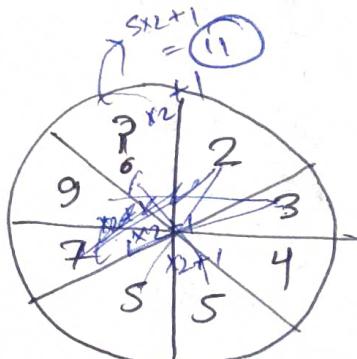
- A 2
- B 3
- C 6
- D 18

⑤

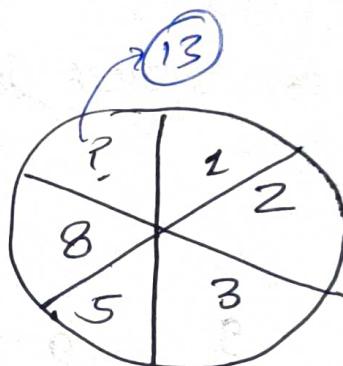


- A 4
- B 305
- C 343
- D 729

⑦

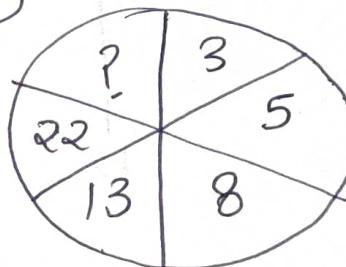


④



$$\begin{aligned} 1+2 &= 3 \\ 2+3 &= 5 \\ 5+8 &= 13 \end{aligned}$$

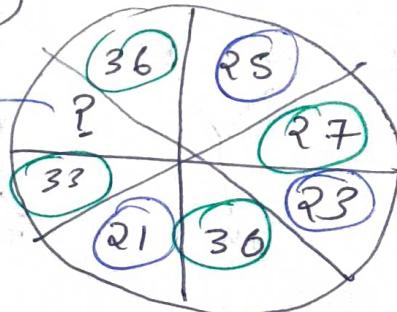
⑥



- A 1
- B 26
- C 39
- D 45
- E 50

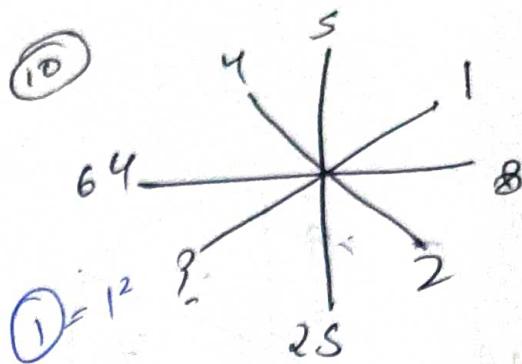
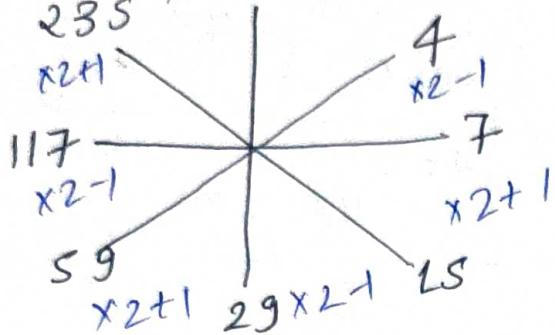
$$\begin{array}{cccccc} 3, & 5, & 8, & 13, & 22, & \underline{39} \\ x2 & x2 & x2 & x2 & x2 & \\ -1 & -2 & -3 & -4 & -5 & \end{array}$$

⑧



- A 19
- B 22
- C 32
- D 35

⑨  $x_2 - 1$  ? (469)



~~Ⓐ 1 Ⓛ 2 Ⓜ 3 Ⓞ 4~~

Ⓐ 327 Ⓛ 386 Ⓜ 438 Ⓞ 469

### Type 4

①  $\sqrt{36}$

$\sqrt{144}$

$\sqrt{400}$

- Ⓐ 21  
Ⓑ 35  
~~Ⓒ 25~~  
Ⓓ 45

②  $\frac{37}{-2} = 35$

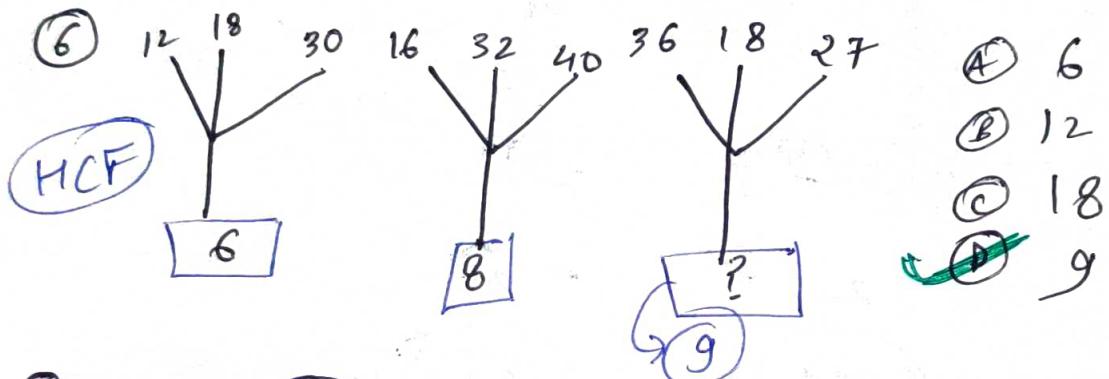
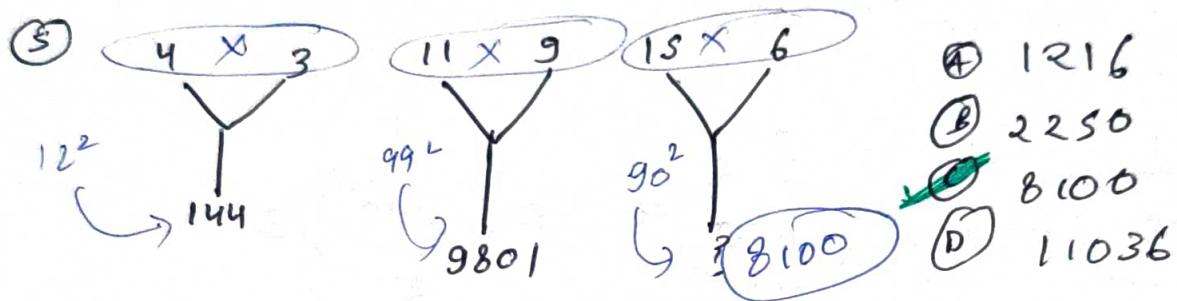
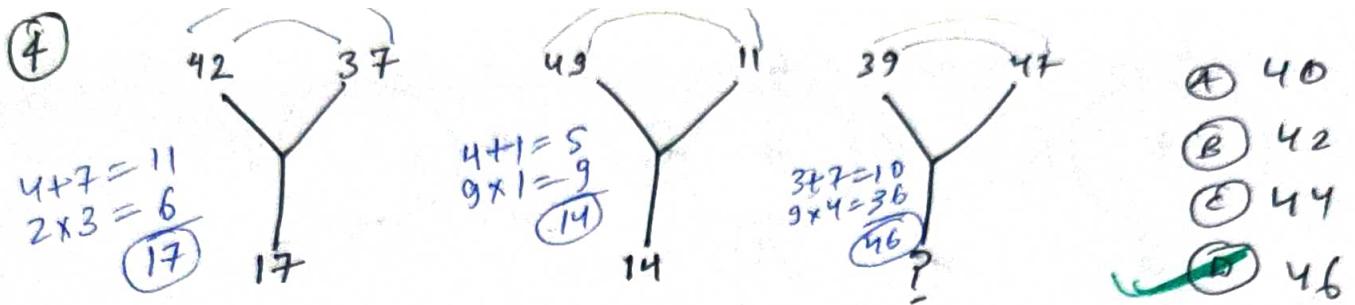
- ~~Ⓐ~~ 49  
Ⓑ 76  
Ⓒ 89  
Ⓓ 74

③  $\frac{46}{-3} = 43$

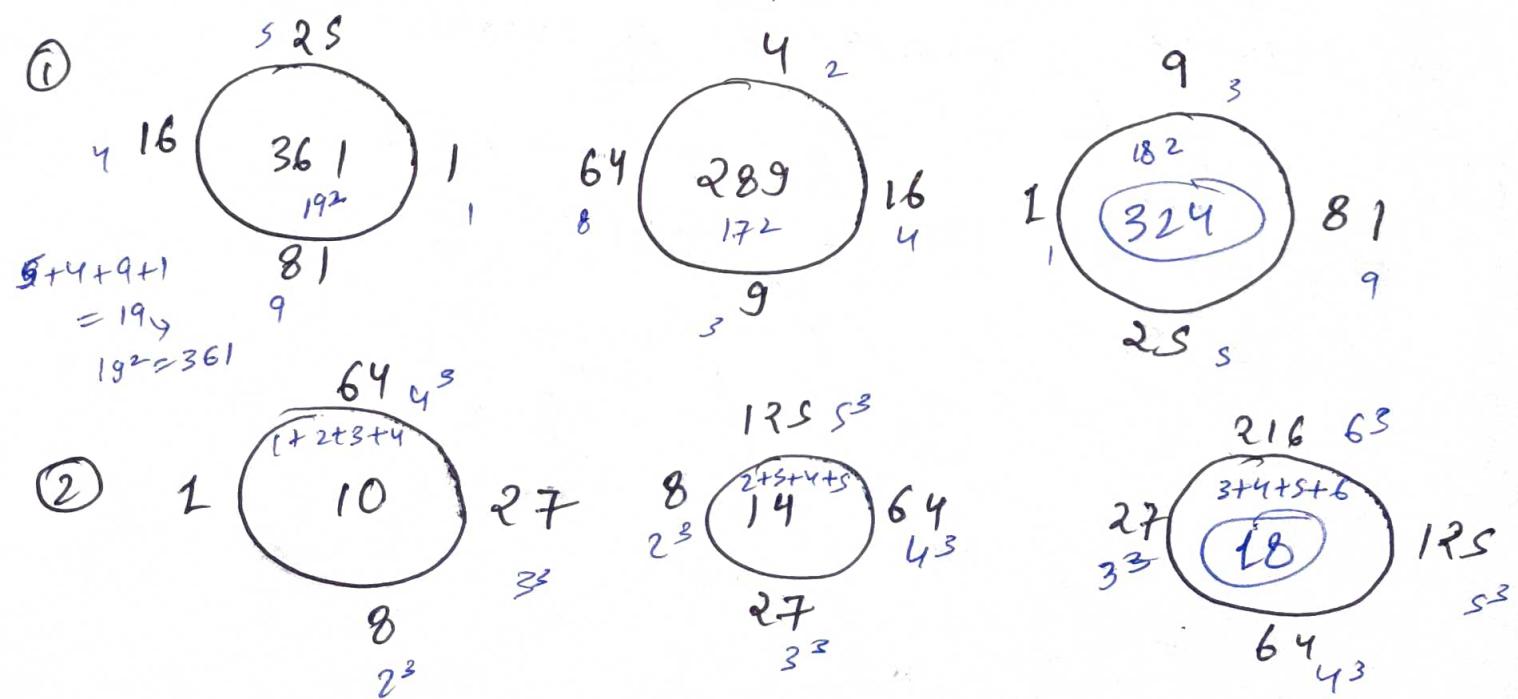
- ~~Ⓐ~~ 12  
Ⓑ 21  
Ⓒ 24  
Ⓓ 35

$\frac{53}{-4} = 49$

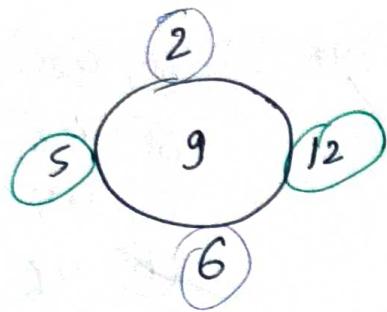
$\frac{21}{7} = 3$



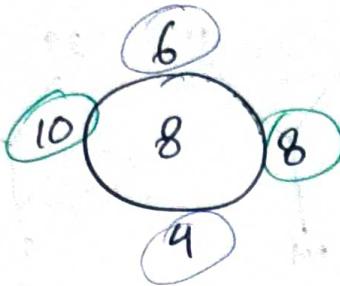
## Type ⑤



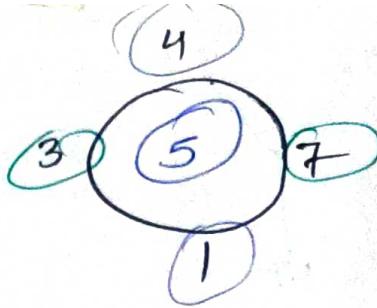
③



$$17 - 8 = 9$$

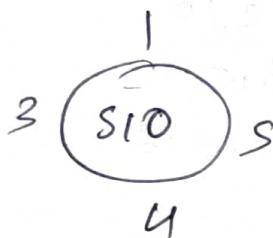


$$18 - 10 = 8$$



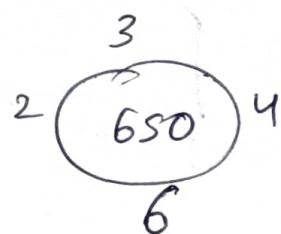
$$10 - 5 = 5$$

④



$$\begin{array}{r} 25 \\ 16 \\ 9 \\ \hline 510 \end{array}$$

$510 \times 10 = 510$



$$\begin{array}{r} 16 \\ 36 \\ 4 \\ 9 \\ \hline 650 \end{array}$$

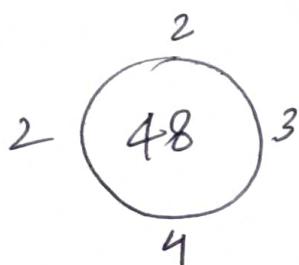
$65 \times 10 = 650$



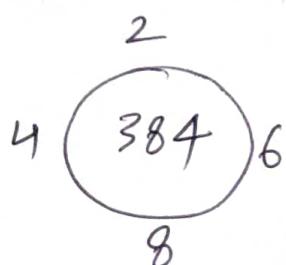
$$\begin{array}{r} 94 \\ 64 \\ 0 \\ \hline 690 \end{array}$$

$69 \times 10 = 690$

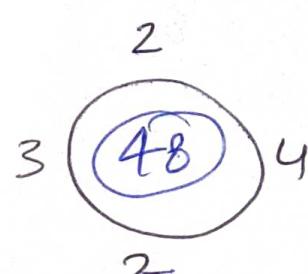
⑤



$$2 \times 2 \times 3 \times 4 = 48$$



$$4 \times 2 \times 6 \times 8 = 384$$

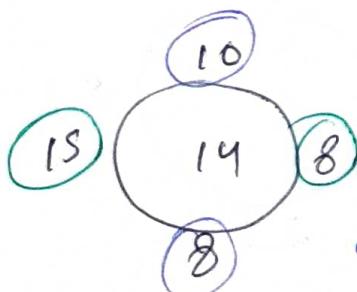


$$3 \times 2 \times 4 \times 2 = 48$$

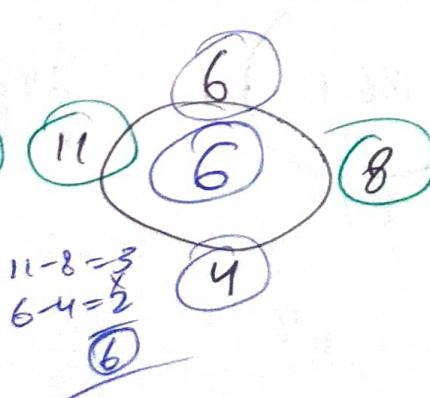
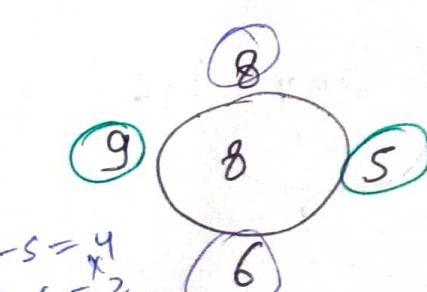
⑥

$$\begin{array}{r} 15 - 8 = 7 \\ 10 - 8 = 2 \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$$

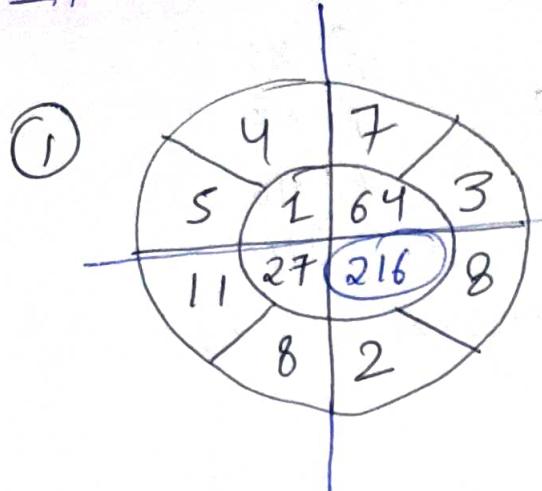


$$\begin{array}{r} 9 - 5 = 4 \\ 8 - 6 = 2 \\ \hline 8 \end{array}$$



$$\begin{array}{r} 11 - 8 = 3 \\ 6 - 4 = 2 \\ \hline 6 \end{array}$$

## Type 6

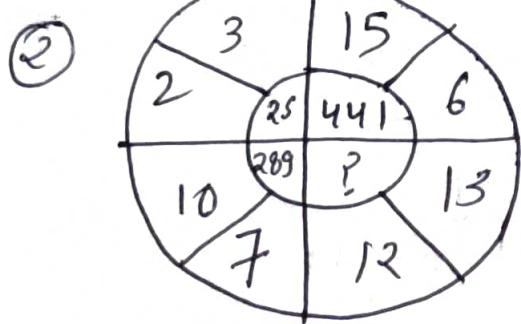


$$7-3=4^3=64$$

$$5-4=1^3=1$$

$$11-8=3^3=27$$

$$8-2=6^3=216$$



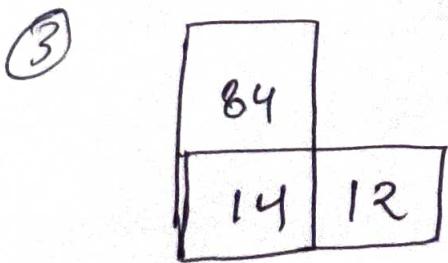
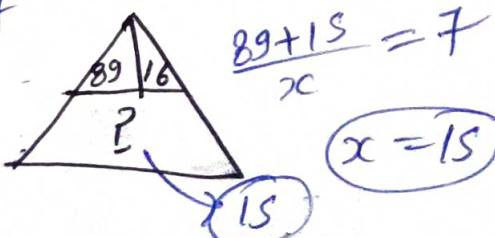
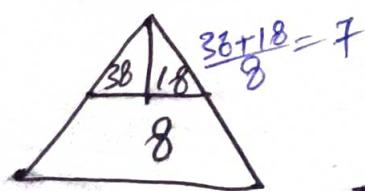
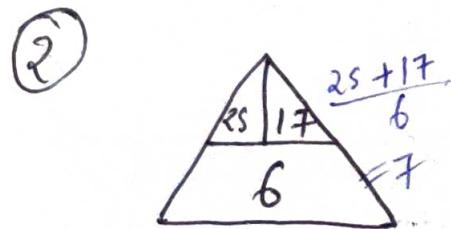
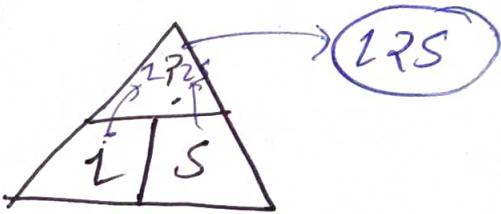
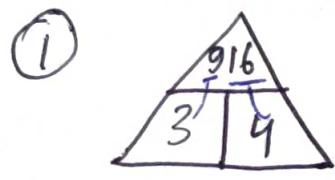
$$2+3=5^2=25$$

$$10+7=17^2=289$$

$$15+6=21^2=441$$

$$12+13=25^2=625$$

## Type 7



$$\frac{14 \times 12}{2} = 84$$

81	
18	9

$$\frac{18 \times 9}{2} = 81$$

88	
?	11

$16$

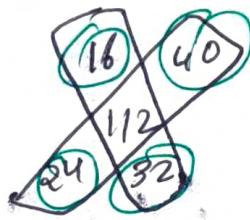
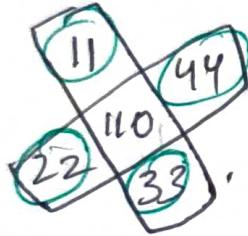
$$\frac{x \times 11}{2} = 88$$

$$x = 16$$

### Type B

Outer no. & inner wala number Banane, Hai

①



A) 35

B) 37

C) 46

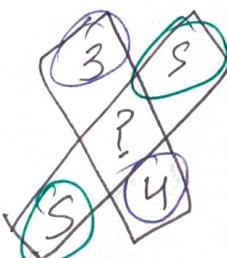
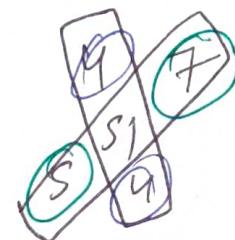
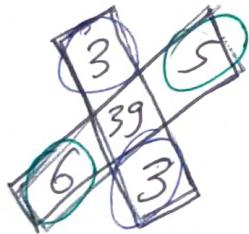
D) 45

$$11 + 22 + 33 + 44 = 110$$

$$16 + 24 + 32 + 40 = 112$$

$$23 + 23 + 34 + 12 = 114 \Rightarrow x = 45$$

②



$$30 + 9 = 39$$

$$35 + 16 = 51$$

$$25 + 12 = 37$$

A) 37

B) 37

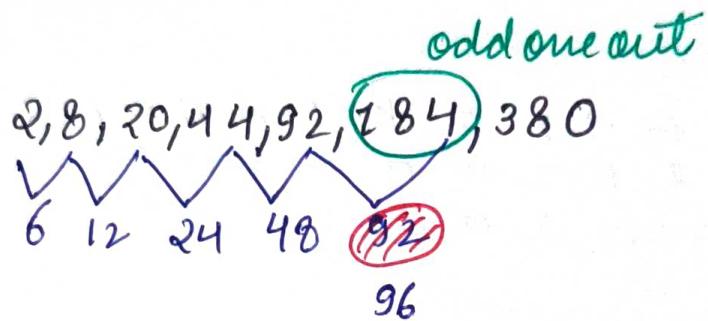
C) 45

D) 47

**Oddman Out**

Breaking Trend

#18



Page 100  
# 36

2 3 6 15 45 157.5 630

$$2 \times 1.5 = 3$$

$$3 \times 2 = 6$$

$$6 \times 2.5 = 15$$

$$15 \times 3 = 45$$

$$45 \times 3.5 = 157.5$$

45



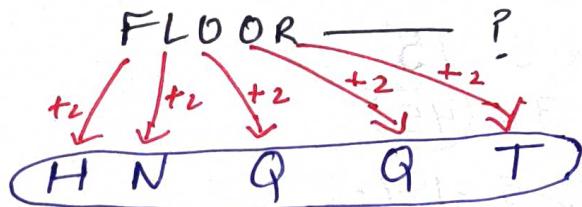
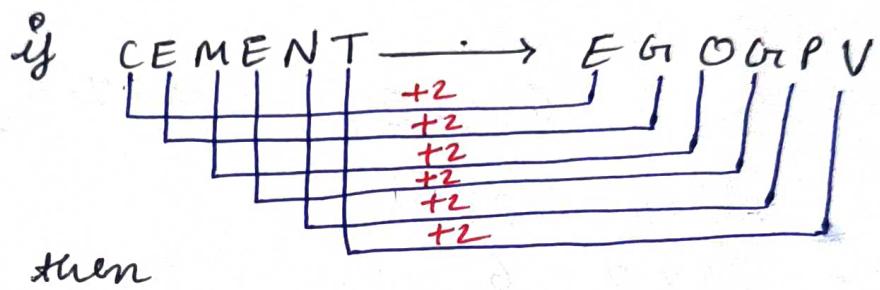
## letter Series

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Reverse code	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
																								2

Type ①

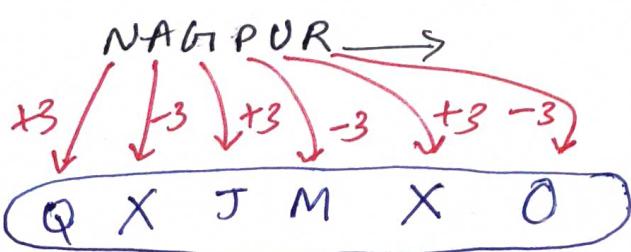
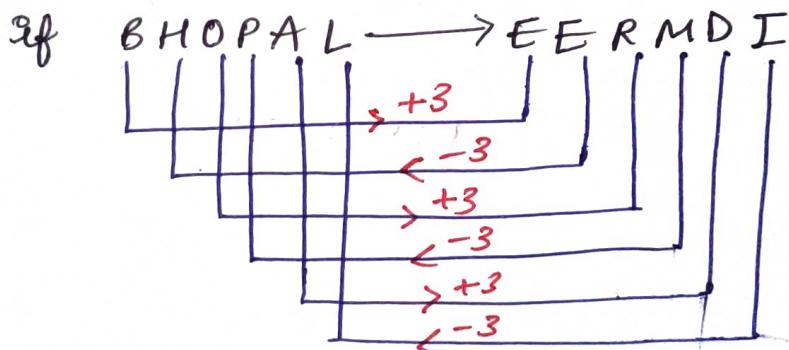
Unidirectional movement

Single movement →



Type ②

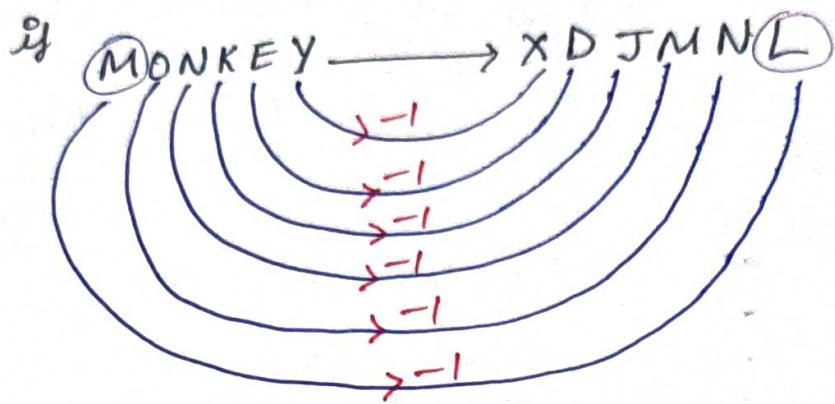
Alternate movement (+/-)



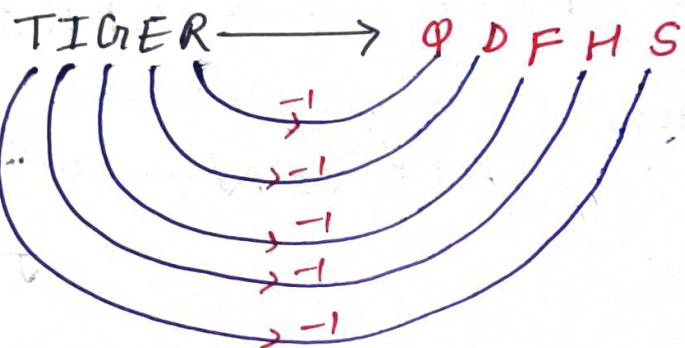
Type ③

end to end  
movement

First → Last  
Last ← First



then



Type ④

Number  
Series

If  $\overset{1+16+16+12+5}{\text{APPLE}} = 50$

then,  $\overset{15+18+1+24+7+5}{\text{ORANGE}} = \textcircled{60}$

$\frac{8+4}{2}$  If

$\overset{16+18+1+19+1+14+14+1}{\text{PRA SANNA}} = 28 \times \frac{1}{3}$  Code

$$\frac{84}{28} = \textcircled{3}$$

$$8+4 = \textcircled{12}$$

$$8-4 = \textcircled{4}$$

$$8 \times 4 = \textcircled{32}$$

$$8^2 + 4^2 = \textcircled{80}$$

$\overset{1+16+1+18+14+1}{\text{A P A R N A}} = \textcircled{17} \times \frac{1}{3}$

## Type ⑤

## Remainder Series

If any number crosses 26  
then,

$$\frac{N}{26} = \text{Quotient} \quad \text{Remainder}$$

↓  
sign code

$$\underline{\text{Explain}} \quad \frac{44}{28} = \textcircled{18} = \textcircled{R}$$

If

FIVE → L R R J

other,

J\*JR5B

ELEVEN →

5 14 5 22 5 14 10 24 18 14 10 28

J X J R S B

## Type ⑥

# Reverse Code

$$\text{if } \begin{array}{r} 20+12 \\ -7 \\ \hline 15 \end{array} \text{ GO} = 32$$

$$\text{and } \begin{array}{r} 8+19+22 \\ +9-8-5 \\ \hline \text{SHE} = 49 \end{array}$$

$$\text{Then, } \frac{14}{13} \times \frac{13}{15} \times \frac{5}{5} = 14$$

Type 7

<sup>o</sup>if  $2+1+20+20+1+2+5 \rightarrow (66)$   
BATTLE = 6

$$13 + 15 + 20 + 15 + 18 = \textcircled{81}$$

MOTOR = ?

$6+0$	$6-0$	$\frac{6}{10}$
6	6	6

$$\begin{array}{c|c|c} 8+1 & 8-1 & \frac{81}{10} \\ \hline 9 & 7 & 8-1 \end{array}$$

```

graph TD
    Division((Division)) --> B[B]
    Division --> O[O]
    FirstPreference[First preference] --> M[M]
    FirstPreference --> A[A]

```