

NUMBER SERIES

Types of Number Series

- 1. Find missing number** ↗
- 2. Find the wrong number** ↗
- 3. Mix series** ↗
- 4. Double series** ↗

$0, ? , 8, 27, 64, 125$ - SSC ↗
 $0^3 \quad 1^3 \quad 2^3 \quad 3^3 \quad 4^3 \quad 5^3$
①

$17, 24, 32, 38, 62, ?(74) \rightarrow$
+7 +6 +6 +24 +12
 $1 \times 7 \quad 2 \times 4 \quad 3 \times 2 \quad 3 \times 8 \quad 6 \times 2$

Find wrong no:

① 1, 2, 9, 28,

$$\begin{array}{l} 0^3+1 \\ 1^3+1 \\ 2^3+1 \\ 3^3+1 \end{array}$$

63,

$$4^3-1$$

$$64-1$$

126,

$$5^3+1$$

217

$$\begin{array}{l} 6^3+1 \\ 216+1 \end{array}$$

② 61,

52,

63,

94,

36

18

16

25

36

49

63

81

4^2

5^2

6^2

7^2

8^2 X

9^2

1. Natural Numbers (प्राकृतिक संख्याएँ) :- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.....n
 2. Whole Numbers (पूर्ण संख्याएँ) :- 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.....n
 3. Even Numbers (सम संख्याएँ) :- 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20.....
 4. Odd Numbers (विषम संख्याएँ) :- 1, 3, 5, 7, 9, 11, 13, 15, 17, 19.....
 5. Prime Numbers (अभाज्य संख्याएँ) :- 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97

$$\begin{array}{r} 2, \quad 3, \quad 10, \quad 29, \quad 66, \quad 127 \\ 0^3 + 2 \quad 1^3 + 2 \quad 2^3 + 2 \quad 3^3 + 2 \quad 4^3 + 2 \quad 5^3 + 2 \\ - \quad - \quad - \quad - \quad - \quad - \\ \hline \end{array}$$

1, 3, 5, 7 9 odd

2, 3, 5, 7 11 prime

SSC CPO

32 38

4, 6, 8, 12, 14, 18, 20, 24, 30, ?, 1

Q₁
3, 5, 7, 11, 13, 17, 19, 23, 29 31 G₁ G₁
37

Prime

Square Numbers (वर्ग संख्याएँ) 1 to 40 1 to 30

x	x^2	x	x^2	x	x^2	x	x^2
1	1	11	121	21	441	31	961
2	4	12	144	22	484	32	1024
3	9	13	169	23	529	33	1089
4	16	14	196	24	576	34	1156
5	25	15	225	25	625	35	1225
6	36	16	256	26	676	36	1296
7	49	17	289	27	729	37	1369
8	64	18	324	28	784	38	1444
9	81	19	361	29	841	39	1521
10	100	20	400	30	900	40	1600

x	x^2	$x^2 + x$	$\cancel{x^2 - x}$	x	$x^2 + x/y^2 - y$	x	$x^2 + x$
1	1	2	0	11	132	21	462
2	4	6	2	12	156	22	506
3	9	12	6	13	182	23	552
4	16	20		14	210	24	600
5	25	30		15	240	25	650
6		42		16	272	26	702
7		56		17	306	27	756
8		72		18	342	28	812
9		90		19	380	29	870
10		110		20	420	30	930

Cube Numbers (घन संख्याएँ) 1 to 30

15

x	x^3	x	x^3	x	x^3
1	1	11	1331	21	9261
2	8	12	1728	22	10648
3	27	13	2197	23	12167
4	64	14	2744	24	13824
5	125	15	3375	25	15625
6	216	16	4096	26	17576
7	343	17	4913	27	19683
8	512	18	5832	28	21952
9	729	19	6859	29	24389
10	1000	20	8000	30	27000

9. $x^3 - x$

x	1	2	3	4	5	6	7	8	9	10
$x^3 - x$	0	6	24	60	120	210	336	504	720	990

22 2: 8-2:6

$x^3 - x$

6

27-3
64-4

10. $x^3 + x$

|+|

$x^3 + x$

x	1	2	3	4	5	6	7	8	9	10
$x^3 + x$	2	10	30	68	130	222	350	520	738	1010

8+2 27+3

$$11. x^3 - x^2$$

$$21 - 9 = 18$$

$$125 - 25 = 100$$

x	1	2	3	4	5	6	7	8	9	10
$x^3 - x^2$	0	4	18	48	100	180	294	448	648	900

$$12. x^3 + x^2$$

$$x^3 + x^2$$

x	1	2	3	4	5	6	7	8	9	10
$x^3 + x^2$	2	12	36	80	150	252	392	576	810	1100

$$27 + 9 = 36$$

$$1000 + 100$$

How to solve a number Series

2, 6, 12, 20, 30, 42, ? 56 →

2 + 4 = 6
2 × 3 = 6
 $2^2 + 2 = 6$
 $2^3 - 2 = 6$
 $(2 \times 2) + 2 = 6$

$\underbrace{2, \quad 1, \quad 2, \quad 15, \quad 236, \quad ?}_{\begin{array}{c} x_1 \\ -1 \\ x_4 \\ -2 \\ x_9 \\ -3 \\ x_{16} \\ -4 \\ x_{25} \\ -5 \end{array}}$

$$\begin{array}{l}
 (2x_1) - 1 \\
 (2x_4) - 2 \\
 (1x_9) - 3 \\
 (15x_{16}) - 4
 \end{array}$$

$$15 \times 15 = 225$$

$$15 \times 16 = 240 \quad -4 : 236$$

$$5900 - 5 = 5895$$

$$\begin{array}{l} 3, \quad u, \quad 12, \\ x_1 \quad x_2 \quad x_3 \\ +1 \quad +4 \quad +9 \end{array}$$

$$\begin{array}{ll} 45, & 196, \\ x_4 & x_5 \\ +16 & +25 \end{array} \quad ?$$

$$45 \times u = 180$$

1005

$$\begin{array}{l} (3x_1) + 1 \\ (u x_2) + 4 \end{array}$$

$$354,$$

$$\begin{array}{r} \div 2 \\ +3 \end{array}$$

$$177 \div 3$$

$$180,$$

$$\begin{array}{r} \div 3 \\ +4 \end{array}$$

$$60$$

$$64,$$

$$\begin{array}{r} \div 4 \\ +5 \end{array}$$

$$16$$

$$21,$$

$$\begin{array}{r} \div 5 \\ +6 \end{array}$$

$$16$$

$$10.2,$$

$$\begin{array}{r} \div 6 \\ +7 \end{array}$$

$$17$$

$$\begin{array}{c} ? \\ 8.7 \end{array}$$

$$1.7 + ? = 8.7$$

$$\frac{102}{6}$$

$$\begin{array}{c} 21 \\ \times 5 \\ \hline 105 \end{array} \quad 4. 216 \div 10.2$$

+ Based Series :

1. Same Number (समान संख्याए) +1, +1, +1, +1, +1, +1

$$51, \underbrace{110,}_{53} \underbrace{163,}_{53} \underbrace{216,}_{53} \underbrace{269,}_{53} ? \quad ? \quad \textcircled{322}$$

2. Natural Number (प्राकृत संख्याए) +1, +2, +3, +4, +5, +6

$$3, \underbrace{7,}_{+4} \underbrace{12,}_{+5} \underbrace{18,}_{+6} \underbrace{25,}_{+7} \underbrace{33,}_{+8} ? \quad ? \quad \textcircled{42}$$

3. Even Number (सम संख्याए) +2, +4, +6, +8, +10, +12

$$2, \underbrace{6,}_{+4} \underbrace{12,}_{+6} \underbrace{20,}_{+8} \underbrace{30,}_{+10} \underbrace{42,}_{+12} ? \quad ? \quad \textcircled{56}$$

+ Based Series :

4. Odd Numbers (विषम संख्याए) +1, +3, +5, +7, +9, +11

$$3, \underbrace{4,}_{+1} \underbrace{7,}_{+3} \underbrace{12,}_{+5} \underbrace{19,}_{+7} ? \text{ (28)}$$

5. Prime Numbers (अभाज्य संख्याए) +2, +3, +5, +7, +11, +13

$$2, \underbrace{4,}_{+2} \underbrace{7,}_{+3} \underbrace{12,}_{+5} \underbrace{19,}_{+7} ? \text{ (30)}$$

6. Square Numbers (वर्ग संख्याए) +1, +4, +9, +16, +25, +36

$$2, \underbrace{3,}_{+1} \underbrace{12,}_{+9} \underbrace{37,}_{+25} \underbrace{86,}_{+49} \underbrace{167,}_{+81} ? \text{ (288)}$$

+ Based Series :

7. Cube Numbers (घन संख्याए) +1, +8, +27, +64, +125, +216

$$\begin{array}{ccccccc}
 114, & 115, & 107, & 134, & 70, & ? & 195 \\
 \underbrace{+1}_{1^3} & \underbrace{-8}_{2^3} & \underbrace{+27}_{3^3} & \underbrace{-64}_{4^3} & \underbrace{+125}_{5^3} & &
 \end{array}$$

8. Table (पहाड़ा) +7, +14, +21, +28, +35, +42

$$\begin{array}{ccccccc}
 6, & 19, & 45, & 84, & 136, & ? & 201 \\
 \underbrace{-13}_{1 \times 13} & \underbrace{+26}_{2 \times 13} & \underbrace{+39}_{3 \times 13} & \underbrace{+52}_{4 \times 13} & \underbrace{+65}_{5 \times 13} & &
 \end{array}$$

9. Multiple (गुणज) +2, +4, +8, +16, +32, +64

$$\begin{array}{ccccccc}
 8, & 15, & 36, & 99, & 288, & ? & 855 \\
 \underbrace{+7}_{x3} & \underbrace{+21}_{x3} & \underbrace{+63}_{x3} & \underbrace{+189}_{x3} & \underbrace{+567}_{x3} & &
 \end{array}$$

+ Based Series :

10. Previous Step (पिछला पद)

$$3, \underline{5}, \underline{\underline{8}}, \underline{\underline{13}}, \underline{\underline{21}}, \underline{\underline{34}}, ?$$

$21 + 34 = 55$

55

- Based Series :

2, 6, 12, 20, 30, 42, ? F6

 +4 +6 +8 +10 +12 +14

62, 30, 20, 12, 6, ? ②

 -12 -10 -8 -6 -4

Based Series :

- $2, \underbrace{6}_{x3}, \underbrace{24}_{x4}, \underbrace{120}_{x5}, \underbrace{720}_{x6}, ?$ 5040
20160
- $4, \underbrace{4}_{x1}, \underbrace{8}_{x2}, \underbrace{24}_{x3}, \underbrace{96}_{x4}, \underbrace{480}_{x5}, \underbrace{2880}_{x6}, ?$
- $4, \underbrace{2}_{x0.5}, \underbrace{2}_{x1}, \underbrace{3}_{x1.5}, \underbrace{6}_{x2}, \underbrace{15}_{x2.5}, \underbrace{45}_{x3}, ?$ 157.5 →

÷ Based Series :

720, 120, 24, 6, 2, ? ①

$\div 6$ $\div 5$ $\div 4$ $\div 3$ $\div 2$

+

-

\times

\div

Square and Cube Based (वर्ग और घन पर आधारित) :

1, 0, 3, 8, 15, 24, ?
1, 4, 9, 16, 25, ?
2, 5, 10, 17, 26, ?

(35)
(36)
(37)

0, 7, 26, 63, 124, ?(215)

1, 8, 27, 64, 125, ?(216)

2, 9, 28, 65, 126, ?(217)

2, 3, 10, 29, 66, ?(127)

$$0^3 + 2$$

$$1^3 + 2$$

$$2^3 + 2$$

$$3^3 + 2$$

$$4^3 + 2$$

$$5^3 + 2$$

Geometric Series Based

$$\begin{array}{ccccccccc} 2, & 5, & 9, & 19, & 37, & 75, & 149, & ? \\ x_2 & \xrightarrow{x_2} & -1 & x_2 & \xrightarrow{x_2} & +1 & x_2 & \xrightarrow{x_2} & -1 \\ x_1 & & & x_1 & & & x_1 & & x_1 \end{array}$$

2699

$$\begin{array}{ccccccccc} 3, & 7, & 23, & 95, & ? \\ x_2 & \xrightarrow{x_2} & +2 & x_3 & \xrightarrow{x_4} & +3 & x_4 & \xrightarrow{x_5} & +4 \\ x_1 & & & x_2 & & & x_3 & & x_4 \end{array}$$

611 21t² 92+3 675+4

479

Que. 1 2, 3, 10, 15, 26, ? (35)

$$\begin{array}{c} 1^2+1 \\ \downarrow \\ 2^2-1 \end{array} \quad \begin{array}{c} 3^2+1 \\ \downarrow \\ 4^2-1 \end{array} \quad \begin{array}{c} \downarrow \\ 5^2+1 \\ 36-1 \end{array}$$

Que. 2 0, 5, 8, 17, 24, ? (31)

$$\begin{array}{c} 1^2 \\ \downarrow \\ 2^2+1 \\ 3^2-1 \end{array} \quad \begin{array}{c} \downarrow \\ 4^2+1 \\ 5^2-1 \end{array}$$

Que. 3 0, 7, 26, 63, 124, 215, ? (342)

$$\begin{array}{c} 1^3-1 \\ \downarrow \\ 2^3+1 \\ 3^2-1 \end{array} \quad \begin{array}{c} \downarrow \\ 5^3-1 \\ 6^3-1 \end{array} \quad \begin{array}{c} \downarrow \\ 7^3-1 \end{array}$$

Que. 4 0, 2, 3, 9, 8, 28, 15, ?, ? (24)

$$\begin{array}{c} 1^3+1 \\ \downarrow \\ 2^2-1 \\ 2^3+2 \\ 3^2-1 \end{array} \quad \begin{array}{c} \cancel{3^2+1} \\ \downarrow \\ 4^2-1 \end{array} \quad \begin{array}{c} \cancel{3^2+1} \\ \downarrow \\ 5^2-1 \end{array}$$

Que. 5 10, 60, 30, 120, 68, 210, ?, ? (322)

$$\begin{array}{c} \downarrow \\ 4^3-4 \\ 5^3-5 \end{array} \quad \begin{array}{c} \downarrow \\ 6^3-6 \\ 7^3-7 \end{array}$$

216-6 (336)

Que. 6 2, 4, 36, 48, 150, 180, ? (392)

$$\begin{array}{ccccccccc} 1 & 8 & 27 & 64 & 125 & 216 & 343 \\ \frac{1}{2} & -\frac{4}{4} & +\frac{9}{36} & -\frac{16}{48} & +\frac{25}{150} & -\frac{36}{180} & +\frac{49}{392} \end{array}$$

① $x_2 \rightarrow x_3 \rightarrow x_4 \rightarrow x_5 \rightarrow$? $\rightarrow 720$

$x_1, 2, 6, 24, 120, x_6$

120

② 10, 100, 200, 310, ?

+90 +100 +110 +120

430

③ 7714, 7916, 8109, ?
7+7=14 7+9=16 8+1=09

a) 8312 ✗

b) 8311 ↗

c) 8509 ✗

d) 8515 ✗

④

$$3, 15, 35, 63, ? \quad 99$$
$$2^2 - 1 \quad 4^2 - 1 \quad 6^2 - 1 \quad 8^2 - 1 \quad 10^2 - 1$$
$$\begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \\ \text{ } \\ \text{ } \end{array}$$
$$\begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \\ \text{ } \\ \text{ } \end{array}$$
$$\begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \\ \text{ } \\ \text{ } \end{array}$$
$$\begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \\ \text{ } \\ \text{ } \end{array}$$
$$\begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \\ \text{ } \\ \text{ } \end{array}$$
$$\begin{array}{c} 12 \\ 8 \\ 20 \\ 8 \\ 28 \\ 8 \\ 36 \end{array}$$

⑤

$$2, 5, 9, 19, 37, ? \quad 75$$
$$x_2 \\ +1 \rightarrow -1 \rightarrow x_2 \\ +1 \rightarrow -1 \rightarrow x_2 \\ +1$$

⑥ $9, \xrightarrow{x_3 + 4} 27, \xrightarrow{x_5 + 6} 31, \xrightarrow{x_6 + 6} 155, \xrightarrow{x_7 + 8} 161, \xrightarrow{x_8 + 8} 1127, \xrightarrow{x_9 + 8} 1135$

⑦ $15, \xrightarrow{x_2 + 1} 31, \xrightarrow{x_2 + 2} 64, \xrightarrow{x_3 + 3} 131, \xrightarrow{x_4 + 4} 266 \xrightarrow{?} 1$

⑧

3, 10,

10^1 ,

?

$$3^2 + 1 \rightarrow 10^3 + 1 \rightarrow 101^2 + 1$$

a) 10101

b) 10202 ↗

10201

c) 10201

d) 10203

9)

$$8, \quad 17, \quad 36, \quad 75, \quad ?$$

$$\begin{array}{c} x_2 \\ +1 \end{array} \rightarrow \begin{array}{c} x_2 \\ +2 \end{array} \rightarrow \begin{array}{c} x_2 \\ +3 \end{array} \rightarrow \begin{array}{c} x_2 \\ +4 \end{array}$$

154

10)

$$2, \quad 7, \quad 27, \quad 107, \quad ?$$

$$\begin{array}{c} x_4 \\ -1 \end{array} \rightarrow \begin{array}{c} x_4 \\ -1 \end{array} \rightarrow \begin{array}{c} x_4 \\ -1 \end{array} \rightarrow \begin{array}{c} x_4 \\ -1 \end{array}$$

127

128

1) $5, 7, 11, ?$ $35, 67$

$\begin{array}{l} \times 2 \\ -3 \end{array} \rightarrow \begin{array}{l} \times 2 \\ -3 \end{array} \rightarrow \begin{array}{l} \times 2 \\ -3 \end{array}$

19 $\begin{array}{l} \times 2 \\ -3 \end{array} \nearrow$

$5, 7, 11, 19, 35, 67$

$\underbrace{5}_{2}, \underbrace{7}_{4}, \underbrace{11}_{8}, \underbrace{19}_{16}, \underbrace{35}_{32}$

2) $1, 2, 3, 14, 5, 34, 7, 62, ?, ?, ?$

$2^2 - 2, 4^2 - 2, 6^2 - 2, 8^2 - 2, 10^2 - 2$

3) $3, 3, 11, 19, 59, ?$

$\begin{array}{cccccc} \times 2 & \nearrow & \times 3 & \nearrow & \times 2 & \nearrow \\ -3 & & +2 & & -3 & \\ \end{array}$

$\begin{array}{cccccc} \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ x2 & x3 & x2 & x3 & x2 & x2 \\ -3 & +2 & -3 & +2 & -3 & -3 \end{array}$

115

~~xy~~

4) $138, 161, 185, 210, ?$

$\begin{array}{cccccc} \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ +23 & +24 & +25 & +26 & \end{array}$

236

4, 3, 4, 7, 15, ?

38.5

$$\begin{array}{ccccccc} & \times 0.5 & & \downarrow & \times 1.5 & & \downarrow \\ & +1 & & & +1 & & \\ 4 & & & & & & 15 \\ & \times 1 & & & \times 2 & & \\ & +1 & & & +1 & & \\ & & & & & & \end{array}$$

(a) 38.5 ✓

(b) 40

(c) 45

(d) 37.5

(e) None of these

$\times 0.5$

$\frac{1}{2}$

$$\begin{array}{r} 30 \\ - 7.5 \\ \hline 22.5 \end{array}$$

$$11, 14, 19, 28, 43, ?^{66}$$
$$\begin{array}{cccccc} \swarrow & \swarrow & \swarrow & \swarrow & \swarrow \\ +3 & +5 & +9 & +15 & +23 \\ \swarrow & \swarrow & \swarrow & \swarrow & \swarrow \\ +2 & +4 & +6 & +8 \end{array}$$

- (a) 60
- (b) 63
- (c) 66 
- (d) 70
- (e) None of these

23, 50, 108, 232, 492, ? 1028

$$\begin{array}{ccccccc} \times 2 & \times 2 & \times 2 & & \times 2 & \nearrow & \times 2 \\ +4 & +8 & +16 & & +28 & & +44 \\ \underbrace{\quad}_{4} & \underbrace{\quad}_{8} & \underbrace{\quad}_{12} & & \underbrace{\quad}_{12} & & \underbrace{\quad}_{16} \end{array}$$

- (a) 1028 ✓
(b) 1024
(c) 1020
(d) 1032
(e) None of these

$$\begin{array}{r} 216 \quad 464 \\ \hline 984 \\ \underline{-44} \\ \hline 1028 \end{array}$$

$2, 2, 4, 12, 48, ?$ 240

- (a) 180
- (b) 220
- (c) 240 ✓
- (d) 160
- (e) 210

4, 7, 13, 25, 49, ? 

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

(a) 118

(b) 136

(c) 86

(d) 97



20, 23, 29, 40, 58, 85

+3 +6 +11 +18 +27
+3 +5 +7 +9

(a) 23

(b) 25

(c) 27

(d) 31

(e) 24

5, 7, 17, 55, 225, ? (1131)

$x_1 \ x_2 \ x_3 \ x_4 \ x_5$
 $+2 \ +3 \ +4 \ +5 \ +6$

- (a) 971
- (b) 1131
- (c) ~~1253~~
- (d) ~~1435~~
- (e) ~~956~~

$51+4 \quad 220+5$

$$\begin{array}{r} 225 \\ 5 \quad \quad \quad 5 \\ \hline 0 \end{array}$$

$$-32 + 12 = \textcircled{-20}$$

85, 53, 33, 22, 17, ?

$$\begin{array}{cccccc} & \underbrace{-32}_{+12} & \underbrace{-20}_{+9} & \underbrace{-11}_{+6} & \underbrace{-5}_{+3} & -2 \\ & & & & & \end{array}$$

$$-5 + 3 = -2$$

- (a) 5
- (b) 9
- (c) 10
- (d) 8
- (e) 15

$$22 - 5$$

19, 30, 44, 67, 117, ? 248

$$\begin{array}{cccccc} & \swarrow & \searrow & \swarrow & \searrow & \\ +11 & +14 & +23 & +50 & +131 \\ \swarrow & \searrow & \swarrow & \searrow & \\ +3 & +9 & +27 & +81 \end{array}$$

$$3^1 \quad 3^2 \quad 3^3 \quad 3^4$$

- (a) 236
- (b) 272
- (c) 264
- (d) 248 ✓
- (e) 254

7, 9, 18, 46, 111, ? 237

+2 +9 +28 +65 +126

$$46 \times 2 = 92$$

$$46 \times 3 = 138$$

1^3+1 2^3+1 3^3+1 4^3+1 5^3+1

(a) 245

(b) 229

(c) 233

(d) 248

(e) 237 

171

7, 24, 58, 109, ?, 262

+17 +34 +51 +68 85

- (a) 183
- (b) 189
- (c) 171
- (d) 163
- (e) 177 ✓

$$7.4, 9.2, 11.4, 14, 17, \underline{20.4}$$
$$\begin{array}{cccccc} +1.8 & +2.2 & +2.6 & +3 & 3.4 \\ +.4 & +.4 & +.4 & +0.4 & \dots \end{array}$$

- (a) 19.8
- (b) 22.6
- (c) 23
- (d) 21
- (e) 20.4 ✓

7413, 7422, 7440, 7461, ?, 7503, 7548
+9 +18 +27 +36 +45

- (a) 7464
- (b) 7456
- (c) 7466
- (d) 7477
- (e) None of these

7467

6, 26, 134, 666, 3334, 16666, ?

$$\begin{array}{rrrr} x_5 & x_5 & x_5 & x_5 \\ -4 & +4 & -4 & +4 \end{array} \quad \begin{array}{rr} x_5 \\ -4 \end{array} \quad \begin{array}{rr} x_5 \\ +4 \end{array}$$

- (a) 84344

~~(b) 83443~~

(c) 84434

~~(d) 83334~~

(e) 83344

134
5
670 - u

$$\begin{array}{r} 16666 \\ \times 5 \\ \hline 3330 \\ + 4 \\ \hline 3334 \end{array}$$

Que. 17

Directions (निर्देश) : In each of the following number series, a wrong number is given. Find out the wrong number.

$$2, \underline{3}, \underline{6}, \underline{18}, \overset{108}{\cancel{109}}, \underline{1944}, \underline{209952}$$

\downarrow i
 2×3 3×6

- (a) 3
- (b) 6
- (c) 18
- (d) 109 ✓
- (e) 1944

2, 13, 27, 113, 561, 3369, 23581

$x_2 \quad x_3 \quad x_4 \quad x_5 \quad x_6$
+ 7 -6 +5 -4 +3

(a) 13 ✓

(b) 27

(c) 113

(d) 561

(e) 3369

$$\begin{array}{ccccccccc}
 & & & & & & & & \\
 3, 9, 23, & \underline{\overset{97}{99}}, & 479, & \underline{\overset{2881}{20159}} & & & & & \\
 \times 2 & \times 3 & \times 4 & \times 5 & \times 6 & \times 7 & & & \\
 +3 & -4 & +5 & -6 & +1 & -8 & & & \\
 \end{array}$$

- (a) 9
- (b) 23
- (c) 99
- (d) 479

$$\begin{array}{r}
 485 \\
 500 \\
 \hline
 15 \\
 \hline
 \begin{array}{r}
 \textcircled{4} \\
 +7 \\
 \hline
 \textcircled{10}
 \end{array}
 \end{array}$$

- (e) 2881

$7, 4, \textcircled{6}^5, 9, 20, 52.5, 160.5$

$x_{0.5} x_1 x_{1.5} x_2 x_{2.5}$

$+0.5 +1 +1.5 +2 +2.5$

(a) 6

(b) 4

(c) 20

(d) 9

(e) 52.5

$$\begin{array}{r} 5 \\ 2.5 \\ \hline 7.5 \\ 1.5 \\ \hline 40 \\ 10 \\ \hline 50 \end{array}$$

Que. 26

Directions (निर्देश): What will come in place of the question mark (?) in the following number series which has only one number wrong by a margin of + 1 or -1? The first and last number in the series are correct? निम्नलिखित संख्या शृंखला में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या आएगा जिसमें + 1 या - 1 के अंतर से केवल एक संख्या गलत है? शृंखला में पहला और अंतिम नंबर सही है।

6, ~~9~~, 18, 36, ?, 216, 660, 2323

$\times 0.5 \times 1$ $\times 1.5$ \downarrow $\times 2.5$ $\times 3$ $\times 3.5$
 $+7$ $+8$ $+9$ $+11$ $+12$ $+13$
+10

(a) 126

(b) 96

(c) 82 

(d) 108

(e) None of these

72

$$\begin{array}{r} 660 \times 3 = \underline{\quad 1980 \quad} \\ 660 \times 4 = \underline{\quad 2640 \quad} \end{array}$$

$$\begin{array}{r} 216 \\ \underline{- 3} \\ 648 \end{array}$$

,

2310

$\underline{8}, \underline{12}, \underline{18}, \underline{26}, \overset{27}{\cancel{26}}, 40.5, 60.75, ?, 136.6875$
 $\times 1.5 \quad \times 1.5 \quad \times 1.5 \quad \times 1.5 \rightarrow \times 1.5$

- (a) 104.125
- (b) 121.125
- (c) 96.125
- (d) 83.125
- (e) None of these ✓

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

$$\begin{array}{r} 60.5 \\ - 20.25 \\ \hline 39.75 \end{array}$$

$$\frac{26}{13} = 2$$

$$91.125$$

$$\begin{array}{r} 60.750 \\ - 30.375 \\ \hline 29.375 \end{array}$$

Que. 31

Direction: (निर्देश) In each of these questions a number series is given. After the series a number is given followed by (a), (b), (c), (d) & (e). You have to complete the series starting with the given numbers following the sequence of the original series and answer the question that follows the series. इनमें से प्रत्येक प्रश्न में एक

$\times 0.5 \quad \times 1.5 \quad \times 2.5 \quad \times 3.5 \quad \times 4.5$
48, 24, 36, 90, 315, 1417.5,
 $\underline{20}, \text{(a)}, \text{(b)}, \text{(c)}, \text{(d)}, \text{(e)}$

What will come in place of (d)?

(a) 131.25

(b) 133.75

$$\begin{array}{r} 24 \\ 12 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 72 \\ 18 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 30 \\ 7.5 \\ \hline \end{array}$$

(c) 136 (d) 140

(e) 142.25