

1. TYPES OF NUMBERS

Class: VI, MATHEMATICS

INTEGRATED⁺ SOLUTIONS

TEACHING TASK
JEE MAINS LEVEL

2025/26

01	3 2	Ans: C
02	$1+3+5+7+9 = 25 = 5^2 = n^2$	Ans: B
03	$2+4+6+8+10+12+14+16+18+20$ $= 2[1+2+3+\dots+10]$ $= 2 \times 55$ $= 110$	Formula = $n(n+1)$ $= 10 \times 11$ $= 110$ Ans: B
04	Let the two consecutive even natural numbers be $2n, 2n+2, n \in \mathbb{N}$ Difference $(2n+2) - (2n) = 2$	Ans: C
05	2n $(2n+1), (2n+3)$ Difference = $(2n+3) - (2n+1)$ $= 2$	Ans: C
06	$22 + 34 = 56$	Ans: B
07	Let $m=1, n=3, p=5$ A) $m(n+p) = 1(3+5) = 8$ Even B) $m \times p \times (n-1) = 1 \times 5 \times 2 = 10$ Even C) $(m-2) \cdot n \times p = -1 \times 3 \times 5 = -15$, odd	D) $(m+1) \times n$ $2 \times 3 = 6$ Even Ans: C

08 let $x=4, y=2$

A) $x \times y = 4 \times 2 = 8$ Even

B) $\frac{x}{y} = \frac{4}{2} = 2$, Even

C) $(x-1)(y+1) = 3 \times 3 = 9$, odd

Ans: C

09 odd natural number $= 2n-1, n \in \mathbb{N}$

10th odd natural no $= 2(10)-1 = 19$

Ans: B

10 Conceptual

Ans: A

IEEE ADVANCED LEVEL

11 B) 874 [2], C) 234 [8]

Ans: B, C

12 A) 432 [1], D) 823 [7]

Ans: A, D

13 Statement I: Conceptual (True)

Statement II: Conceptual (True)

Ans: A

14 Statement I: n is a whole number (delete this statement)

Statement II: $2(10)+1=21$, odd (True)

Ans: —

15 A) 5 [2]

Ans: A

16 C) 33 [4]

Ans: C

17. 6, [8], 9

Ans: 8

18 19, 20, [21], 22

Ans: 21

- 19 a) $(56, 4) \rightarrow (q, r)$
 b) $(13, 7) \rightarrow (p, s)$
 c) $12 + 1 = 13$ (P)
 d) $57 - 1 = 56$ (q)

Ans. $(q, r), (ps),$
 P, q

- 20 a) n^2 (r)
 b) $n(n+1)$ (s)
 c) Even (P)
 d) odd (q)

Ans. r, s, P, q

LEARNERS TASK CUCU'S

- | | | |
|-----|---|--------|
| 01. | Conceptual | Ans: C |
| 02 | 1 | Ans: B |
| 03 | Conceptual | Ans: D |
| 04 | 0 | Ans: A |
| 05 | $x + 3 = 2 \Rightarrow x = 2 - 3 = -1$, not a whole no | Ans: D |
| 06 | Conceptual | Ans: C |

07 Please, change the question as
 "Zero is divided by any non-zero real
 number, the result is"

$$\frac{0}{\text{Non-Zero real no}} = 0$$

Ans: A

08	Conceptual	④ Ans: D
09	1	Ans: A
10	Conceptual	Ans: D
01	Odd and Even numbers	Ans: A
01	Conceptual	Ans: B
02	Conceptual	Ans: C
03	Conceptual	Ans: D
04	Conceptual	
05	Let $a = 1$ and $b = 5$ No. of Natural Numbers = $\{2, 3, 4\} = 3$ i.e. $(5-1) - 1 = 3$ Ans: $(b-a) - 1 =$	Ans: A
06	$32 + 1 = 33$	Ans: B
07	$65 - 1 = 64$	Ans: B
08	Conceptual	Ans: A
09	Conceptual	Ans: D
10	Conceptual	Ans: C
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01.	370	Ans: C
02	24	Ans: C

03	Conceptual	Ans: D
04	c) 427	Ans: C
05	Conceptual	Ans: D
06	$15^2 = 225$ ADVANCED	Ans: D
07	A) 321 D) 479	Ans: A, B
08	Conceptual (true) <u>Statement II</u> : Conceptual (true)	Ans: A
09	$1\boxed{6} \times 73\boxed{3} \times 4\boxed{2} = \underline{\quad\boxed{6}\quad}$ $6 \times 3 \times 2 \Rightarrow \underline{\quad\boxed{6}\quad}$	Ans: A
10	1	Ans: 1
11	a) Even, 2 (q, s) b) $E \times 0 = E$ (q) c) odd, 51 (p, r) d) $E + 0 = 2 + 1 = 3$ (odd) (p)	Ans: (q, s), q, (p, r) p
$\Rightarrow$ THE END $\in$		

