

TYPES OF NUMBERS ①

Class: VI; Mathematics

③

TEACHING TASK

01. 32

Ans: C

02 Sum of first n odd natural numbers = n^2
 $\therefore 5^2 = 25$

Ans: B

03 Sum of first n Even natural numbers = $\frac{n(n+1)}{2}$
here $n = 10 \therefore S_{10} = \frac{10 \times 11}{2} = 110$

Ans: B

04 2

Ans: C

05 2

Ans: C

06 $22 + 34 = 56$

Ans: B

07 let $m=1, n=3, p=5$

$(m-2)n \times p = (1-2) \times 3 \times 5 = -15$ odd Ans: C

$\Rightarrow$ (or) m is odd $\Rightarrow m-2$ odd

$n \Rightarrow$ odd

$p \Rightarrow$ odd

$\therefore (m-2) \times n \times p = \text{odd} \times \text{odd} \times \text{odd}$
 $= \text{odd}.$

Ans: C

08 x is even $\Rightarrow (x-1)$ odd

y is even $\Rightarrow (y+1)$ odd

$\therefore (x-1)(y+1) \Rightarrow \text{odd}.$

$x \times y \Rightarrow \text{Even} \times \text{Even} \Rightarrow \text{Even}$

$\frac{x}{y} \Rightarrow \rightarrow$

Ans: C

09

$$2n - 1$$

(2)

$$\text{Let } n = 10 \Rightarrow 2(10) - 1 = 20 - 1 = 19$$

Ans: B

11

Even numbers $\rightarrow$ 8742, 2348

Ans: B, C

10

Conceptual

Ans: A

12

Conceptual 4321, 8237

Ans: A, D

13

Statement I: Conceptual (True)

Statement II: Conceptual (True)

Ans: A

14

Statement I: —

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

Ans: —

15

Even numbers $\rightarrow$ 52

Ans: A

16

Even $\rightarrow$ 334

Ans: C

17

6, 7, 8, 9 $\rightarrow$ 8 is Even

Ans: 8

18

19, 20, 21, 22 $\rightarrow$ 21 is odd

Ans: 21

19. a) Even (56, 4)

b) odd (13, 7)

c) successor of 12 ($12 + 1 = 13$)d) predecessor of 57 ($57 - 1 = 56$)

Ans: (q, r), (p, s), p, q

20

a) n^2 b) $n(n+1)$

c) Even

d) odd

Ans: r, s, p, q



LEARNERS TASK

(3)

CUB'S

01.	Conceptual	Ans: C
02.	Conceptual	Ans: B
03.	Conceptual	Ans: D
04.	Conceptual	Ans: A
05.	$x + 3 = 2$ $\Rightarrow x = 2 - 3 = -1$, which is not whole no.	Ans: D
06.	Conceptual	Ans: C
07.	Conceptual	Ans: A
08.	Conceptual	Ans: D
09.	Conceptual	Ans: A
10.	Conceptual	Ans: D

MCG'S

01.	Conceptuals	Ans: A
02.	Conceptual.	Ans: B
03.	Conceptual.	Ans: C
04.	Conceptual.	Ans: D
05.	Conceptual	Ans: A
06.	33	Ans: B
07.	64	Ans: B
08.	$2 + 5 = 7$ (odd)	Ans: A
09.	$2 \times 5 = 10$ (Even) ↓ ↓ Even odd	Ans: D



10. 2n.

JEE MAINS LEVEL QUESTIONS

01. 370

Ans: C

02. 24

Ans: C

03. 2

Ans: D

04. 427

Ans: C

05. Conceptual

Ans: D

06. $1+3+5+\dots$ 15 numbers

$$\text{Ans: Sum} = 15^2 = 225$$

Ans: D

07. 321, 479

Ans: A, B

08. SI: Conceptual (True)

SII: Conceptual (True)

Ans: A

09. $16 \times 733 \times 42$

$$= \boxed{6} \times \boxed{3} \times \boxed{2} = \boxed{6} \downarrow \text{Even}$$

Ans: A

10. 1

Ans: 1

11. a) Even, 82

b) Even $\times$ odd = $2 \times 5 = 10$ (Even)

c) odd, 51

d) Even + odd = $2 + 5 = 7$ (odd)

Ans: (q, s), q, (p, s), p

$\Rightarrow$ THE END $\Leftarrow$