

TYPES OF NUMBERS ①

Class: VII, Mathematics

(F⁺)

①

TEACHING TASK JEE MAIN LEVEL QUESTIONS

01. Rational Numbers = 5, 0.6

Ans: A, B

02. Rational, integer, whole, natural

Ans: D

03. -3

Ans: B

04. 6

Ans: D

05. Infinite

Ans: C

06.

$$\begin{array}{r} 2 \overline{) 160} \\ \underline{2(80)} \\ 2 \overline{) 40} \\ \underline{2(20)} \\ 2 \overline{) 20} \\ \underline{2(10)} \\ 2 \overline{) 10} \\ \underline{2(5)} \\ 0 \end{array}$$

$$: 160 = 2^5 \times 5$$

Ans: B

07. 24) 40 (1)

$$\begin{array}{r} 24 \\ \underline{24} \\ 16 \end{array}$$

$$16) 24 (1)$$

$$\begin{array}{r} 16 \\ \underline{16} \\ 8 \end{array}$$

$$8) 16 (2)$$

$$\begin{array}{r} 16 \\ \underline{16} \\ 0 \end{array}$$

$$H.C.F = 8$$

Ans: C

08. 4) 28, 84

$$\begin{array}{r} 2 \overline{) 28} \\ \underline{2(14)} \\ 0 \end{array}$$

$$\cancel{L.C.M} = 14 \times 2 \times 1 \times 3 =$$

08

$$14 \overline{) 28, 84} \\ 2 \overline{) 2, 6} \\ 1, 3$$

$$L.C.M = 14 \times 2 \times 1 \times 3 \\ = 84$$

(2)

Ans: B

09.

$$\sqrt{16} \cdot = \sqrt{16} \times \sqrt{-1} = \pm 4i$$

Ans: A, B

10.

11. $2\sqrt{2}, \pi, \sqrt{5}$

Ans: A, B, D

12.

12, 36,

Ans: A, C

13.

Statement I: TrueStatement II: True

Ans: A

14

Statement I: factors of 28 = {1, 2, 3, 8, 14, 28}

$$\text{Now } 1 + 2 + 3 + 8 + 14 + 28 = 56 = 2 \times 28 \text{ (True)}$$

Statement II: Conceptual (True)

Ans: A

15.

$$15 \overline{) 15, 150} \\ 1, 10$$

$$L.C.M = 15 \times 1 \times 10 = 150$$

Ans: C

16.

$$8 \overline{) 15} (1 \\ \underline{8} \\ 7 \overline{) 8} (1 \\ \underline{7} \\ 1 \overline{) 7} (7 \\ \underline{7} \\ 0$$

HCF = 1

Ans: D

17.

Prime numbers = 17

Ans: 17

18 15

Ans: 15



- 19 a) Co-primes (4, 5)
 b) 28
 c) 5
 d) 12

(2)

Ans: S, P, Q, R

- 20 a) set of counting numbers and zero
 b) fractions
 c) Negative & positive whole numbers
 d) can not be written as fractions

Ans: R, Q, S, P

LEARNERS TASK

CUQS

01. Conceptual.

Ans: B

02. Conceptual

Ans: B

03. Conceptual

Ans: D

04. Conceptual

Ans: D

05. Conceptual

Ans: D

06. Conceptual

Ans: C

07. Conceptual

Ans: C

08. Conceptual

Ans: C

09. Conceptual

Ans: D

10. 59

Ans: C



JEE MAINS LEVEL

(4)

01. Conceptual

Ans: B

02

$$\begin{array}{r|l} 8 & 8, 24, 48 \\ \hline 3 & 1, 3, 6 \\ \hline & 1, 1, 2 \end{array}$$

$$\begin{aligned} \text{LCM} &= 8 \times 3 \times 1 \times 1 \times 2 \\ &= 24 \times 2 \\ &= 48 \end{aligned}$$

Ans: C

03

$$\begin{array}{r} 36 \overline{) 108} \\ \underline{108} \\ 0 \end{array}$$

$$\text{LCM} = 36$$

Ans: A

04. Conceptual

Ans: B

05. Conceptual

Ans: B

06. Conceptual

Ans: C

07

$$\begin{array}{r} 2 \overline{) 200} \\ \underline{200} \\ 0 \\ 2 \overline{) 100} \\ \underline{100} \\ 0 \\ 2 \overline{) 50} \\ \underline{50} \\ 0 \\ 5 \overline{) 25} \\ \underline{25} \\ 0 \\ 5 \end{array}$$

$$200 = 2^3 \times 5^2$$

Ans: B

08. Conceptual.

Ans: B

09.

~~2, 4, 6, 8, 10~~

Ans: A

10. $\{2, 4, 6, 8\}, \{4, 6, 8, 10\}$

Ans: C, D

ADVANCED LEVEL

11. Conceptual

Ans: B, C, D

12. Statement I: True

Statement II: True

Ans: A



13. (11, 13)

Ans: C⁽⁵⁾

14. 1

Ans: 1

15 a)

$$\begin{array}{r} 2 \overline{) 100} \\ \underline{2 } 50 \\ 5 \overline{) 25} \\ \underline{5 } 5 \end{array}$$

$$100 = 2^2 \times 5^2$$

Ans

b)

$$\frac{3.3}{100} = \frac{33}{1000}$$

c) Cardinal number - 4

d) Ordinal number = 4th

Ans: r, p, 4, s

⇒ THE END ←