



Class-3

TYPE - III

$$\begin{array}{l} \text{LCM}(2, 4, 6) \\ \hline \text{HCF}(5, 15, 25) \\ \text{HCF}(1, 3, 5) \\ = \frac{12}{5} \end{array}$$

LCM

14. Find the least common multiple of

$$\frac{2}{5}, \frac{4}{15} \text{ and } \frac{6}{25}$$

$\frac{2}{5}, \frac{4}{15}$ और $\frac{6}{25}$ का लघुत्तम समापवर्त्य ज्ञात कीजिए।

(a) $\frac{5}{12}$

(c) $\frac{12}{7}$

(b) $\frac{12}{5}$

(d) $\frac{11}{5}$

$$\begin{array}{l} \text{LCM (2, 4, 9)} \\ \hline \text{HCF (3, 7, 13)} \\ \text{HCF} = 1 \end{array}$$

36 LCM

$$= \frac{36}{1} = 36$$

15. Find the LCM of $\frac{2}{3}$, $\frac{4}{7}$ and $\frac{9}{13}$.

$\frac{2}{3}$, $\frac{4}{7}$ और $\frac{9}{13}$ का ल.स (LCM) ज्ञात करें।

(a) 15

(b) 28

(c) 36

(d) 12

(SSC GD, 10 Dec 2021, Shift-II)

$HCF(4, 16) = 4$ (1, 4)
 $LCM(11, 33) = 33$ Lcm

$\frac{4}{33}$

16. Find the HCF of $\frac{4}{11}$ and $\frac{16}{33}$?

$\frac{4}{11}$ और $\frac{16}{33}$ का महत्तम समापवर्तक क्या है?

- (a) $\frac{4}{33}$
- (b) $\frac{4}{77}$
- (c) $\frac{2}{11}$
- (d) इनमें से कोई नहीं

$Lcm = \frac{LCM(4, 16)}{HCF(11, 33)}$

$16 \rightarrow LCM$
 $HCF = 11$ (1, 3) $\frac{16}{11}$

(SSC GD, 7 March 2024 Shift I)

$HCF(3, 5, 15) \rightarrow HCF = 1$
 $LCM(8, 12, 16)$
 $16 \times$
 $3 \times$
 48 — Lcm

$\frac{1}{48}$

LCM
 $LCM(3, 5, 15)$
 $HCF(8, 12, 16)$
 4 — HCF
 $\frac{15}{4}$

17. What is the highest common

factor of $\frac{3}{8}$, $\frac{5}{12}$ and $\frac{15}{16}$

$\frac{3}{8}$, $\frac{5}{12}$ और $\frac{15}{16}$ का महत्तम समापवर्तक (HCF) क्या है?

- (a) $\frac{1}{24}$
- (c) $\frac{1}{36}$

- ~~(b)~~ $\frac{1}{48}$
- (d) $\frac{1}{12}$

LCM & HCF of Decimal Numbers

TYPE - IV

$$\frac{20}{50}$$

$$\frac{20}{50}$$

$$\frac{20}{100}$$

$$\frac{7}{100}$$

$$\frac{20}{100}, \frac{3}{100}, \frac{600}{100}$$

$$\frac{20}{100}, \frac{3}{100}, \frac{600}{100}$$

$$\frac{24}{10} = \frac{24}{10}$$

$$\frac{25}{100} = \frac{25}{100} = \frac{1}{4}$$

$$\frac{25}{100} = \frac{25}{100} = \frac{1}{4}$$

Step ①

↳ Convert Decimal
Number into fraction

18. Find the LCM of 1.2, 1.8, 2, 2.5?

1.2, 1.8, 2, 2.5 का लघुत्तम समापवर्त्य ज्ञात
कीजिए।

Step ②

make equal each
denomination of
the given fractions

(a) 25

(b) 30

(c) 90

(d) 120

Step ③

↳ Apply LCM & HCF

formula of fractions.

(SSC GD, 27 Feb., 2024 Shift III)

12, 18, 20, 25

$\frac{12}{10}, \frac{18}{10}, \frac{20}{10}, \frac{25}{10}$

$$\frac{\text{LCM}(12, 18, 20, 25)}{\text{HCF}(10, 10, 10, 10)}$$

10(1, 1, 1, 1)

$$\frac{900}{10} = 90$$

18. Find the LCM of 1.2, 1.8, 2, 2.5?

1.2, 1.8, 2, 2.5 का लघुत्तम समापवर्त्य ज्ञात कीजिए।

- (a) 25
- (b) 30
- (c) 90
- (d) 120

12, 18, 20, 25
 LCM = 36 LCM = 100

4	36, 100
9	9, 25
25	1, 25

(SSC GD, 27 Feb., 2024 Shift III)

$$100 \times 9 = 900$$

(a, a, a)

LCM = a

HCF = a

Ex

$(25, 25, 25)$

LCM = 25

HCF = 25

3.2, 2.72, 1.28, 1.44

$\frac{320}{100}$, $\frac{272}{100}$, $\frac{128}{100}$, $\frac{144}{100}$

LCM (320, 272, 128, 144)
HCF (100, 100, 100, 100)

$16 \times 40 \times 153$

100

$= \frac{6120 \times 16}{100} = \frac{97920}{100} = 979.2$

19. Find the LCM of 3.2, 2.72, 1.28 and 1.44.

3.2, 2.72, 1.28 और 1.44 का LCM ज्ञात कीजिए।

(A) 24.48

(B) 2448

(C) 2.448

(D) 244.8

320, 272, 128, 144

20, 17, 8, 9

10, 17, 4, 9

5, 17, 2, 9

5, 17, 1, 9

1, 17, 1, 9

16
2
2
2
5
179

$3.2, 2.72, 1.28, 1.44$

$\frac{320}{100}, \frac{272}{100}, \frac{128}{100}, \frac{144}{100}$

$\frac{\text{LCM}(320, 272, 128, 144)}{\text{HCF}(100, 100, 100, 100)}$

$\frac{16 \times 40 \times 153}{100}$

$= \frac{6120 \times 16}{100} = \frac{97920}{100} = 979.2$

19. Find the LCM of 3.2, 2.72, 1.28 and 1.44.

3.2, 2.72, 1.28 और 1.44 का LCM ज्ञात कीजिए।

(A) 24.48

(B) 2448

(C) 2.448

(D) 244.8

$3.2, 2.72, 1.28, 1.44$

$$\frac{126}{1000}, \frac{360}{1000}, \frac{960}{1000}$$

LCM (126, 360, 960)

HCF (1000, 1000, 1000)

$$4 \begin{array}{l} 360 \times 7 \times 8 \\ 2520 \times 8 \\ 20160 \end{array}$$

$$\begin{array}{r} 20160 \\ \underline{1000} \\ = 20.16 \end{array}$$

20. LCM of 0.126, 0.36 and 0.96. Find (LCM).

0.126, 0.36 और 0.96 का ल.स.प. (LCM)

ज्ञात करें।

(a) 20.16

(b) 20160

(c) 201.60

(d) 2.016

6	126, 360, 960
3	21, 60, 160
4	7, 20, 160
5	7, 5, 40
7	7, 1, 8
8	1, 1, 8

21. Find the HCF of 0.25, 2.08 and 8.1.

0.25, 2.08 और 8.1 का महत्तम समापवर्तक ज्ञात कीजिए।

$$\frac{25}{100} \quad \frac{208}{100} \quad \frac{810}{100}$$

$$\text{HCF}(25, 208, 810) \text{ Hcf} = \textcircled{1} \text{ (a) } 0.01$$

$$\text{LCM}(100, 100, 100)$$

LCM = 100

$$\frac{1}{100} = 0.01$$

(b) 0.02

(c) 0.05

(d) 0.1

$$\frac{143}{100}, \frac{187}{100}, \frac{2090}{100}$$

$$\text{HCF}(143, 187, 2090)$$

$$\text{LCM}(100, 100, 100)$$

$$\frac{11}{100} = \underline{\underline{0.11}}$$

22. Find the HCF of 1.43, 1.87 and 20.9.

1.43, 1.87 और 20.9 का HCF ज्ञात कीजिये।

(A) 11

(B) 1.11

(C) 1.1

(D) 0.11

H.W.

23. The H.C.F. of 1.75, 5.6 and 7 is

1.75, 5.6 और 7 का H. C. F है

(a) 0.07

(b) 0.7

(c) 3.5

(d) 0.35