

LCM & HCF

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Methods • Tricks • Visual Diagrams • Applications • Solved Examples

Assam Police AB/UB & SI Exam — PDF 1 of 2

PDF 1 of 2: Theory + Tricks + Diagrams	Language: English + Assamese Roman
Chapter: LCM & HCF	Methods: Prime Factor, Division, Euclidean
Subject: Mathematics	Exam: Assam Police AB/UB & SI
1. Definitions: HCF & LCM	<i>S▪ja: HCF aru LCM ki?</i>
2. Relationship: $HCF \times LCM = a \times b$	<i>Sambandho: $HCF \times LCM = a \times b$</i>
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SECTION 1: Definitions — HCF & LCM | HCF aru LCM-r Sma

HCF = Sobcheye boro sadharon vibhajok | LCM = Sobcheye choto sadharon gunita

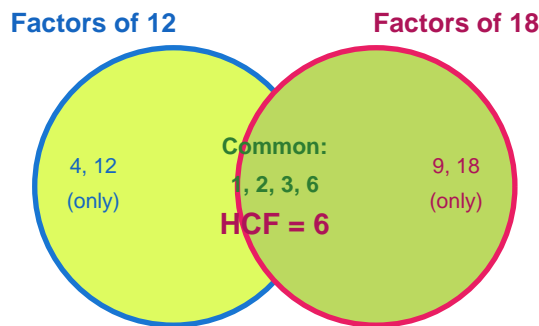
HCF (Highest Common Factor): The largest positive integer that divides two or more numbers without leaving a remainder. Also called GCD — Greatest Common Divisor.

Assamese Roman (HCF): Dutor ba beshi sankhyak nikhutoi vibhajya kore emon sobcheye boro dhanak purnasankhyake HCF bole. Iyake GCD o bole.

LCM (Least Common Multiple): The smallest positive integer that is perfectly divisible by two or more numbers. The smallest number in the common multiples list.

Assamese Roman (LCM): Dutor ba beshi sankhya-re nikhutoi vibhajya hoy emon sobcheye choto dhanak purnasankhyake LCM bole. Prothom sadharon gunita.

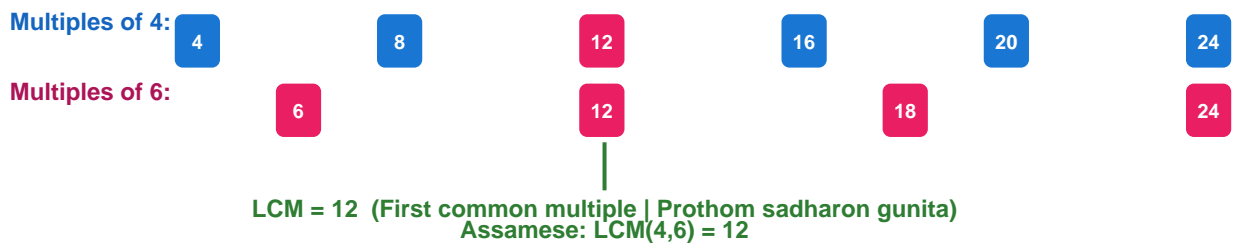
Visual: Venn Diagram of HCF(12, 18)



$HCF(12,18) = 6$ | $LCM(12,18) = (12 \times 18) \div 6 = 36$ | $HCF \times LCM = 6 \times 36 = 216 = 12 \times 18$

Assamese: $HCF=6$ (Sadharon vibhajok-r sobcheye boro) | $LCM=36$ (Sadharon gunita-r sobcheye choto)

Visual: LCM as First Common Multiple — LCM(4, 6)



KEY DIFFERENCES (Muhurtaborhiya Porthokyo):

- $HCF \leq$ smaller number | $HCF \leq$ Choto sankhya | Example: $HCF(12,18)=6 \leq 12$
- $LCM \geq$ larger number | $LCM \geq$ Boro sankhya | Example: $LCM(4,6)=12 \geq 6$
- HCF divides both numbers | LCM is divisible by both numbers
- For co-prime numbers: $HCF=1$, $LCM=$ product | Co-prime sankhyar $HCF=1$, $LCM=$ gunanphal

SECTION 2: Key Relationship | Muhurtaborhiya Sambandho

$HCF \times LCM = a \times b$ — ei xutro bari dorkar! Exam-ot bar bar ase.

$HCF(a,b) \times LCM(a,b) = a \times b$ (Product of both numbers)

$LCM(a,b) = (a \times b) \div HCF(a,b)$

$HCF(a,b) = (a \times b) \div LCM(a,b)$

If $HCF = H$, numbers = Ha and $Hb \rightarrow LCM = H \times a \times b$ (a,b are co-prime)

For 3 numbers a,b,c $LCM(a,b,c) \neq a \times b \times c \div HCF$ [use prime factors]

Proof with Example (Udahoron sahit Pramaan):

For 12 and 18: $HCF(12,18) = 6$ | $LCM(12,18) = 36$ | Check: $6 \times 36 = 216 = 12 \times 18 = 216 \checkmark$

Assamese Roman: 12 aru 18-r HCF=6, LCM=36. $6 \times 36 = 216 = 12 \times 18 = 216$. Xutro sothik.

Given	Find	Formula	Example
HCF, LCM, a	b	$b = (HCF \times LCM) / a$	HCF=4, LCM=48, a=12 \rightarrow b=16
a, b, HCF	LCM	$LCM = (a \times b) / HCF$	12,18,6 \rightarrow LCM=36
a, b, LCM	HCF	$HCF = (a \times b) / LCM$	12,18,36 \rightarrow HCF=6
HCF, ratio a:b	Numbers	Multiply ratio by HCF	HCF=5, ratio 3:4 \rightarrow 15,20
LCM, ratio a:b	Numbers	Divide LCM to find H	LCM=60, ratio 3:4 \rightarrow H=5, nums=15,20

SECTION 3: Method 1 — Prime Factorisation | Moul Bhaajak Pranal

Pranal: Sankhyagulok moul bhaajak-e likhia HCF aru LCM lar.

Prime Factorisation Method — Steps

- 1 **Write prime factorisation of each number**
Protitak sankhyar moul bhaajak lekha: $36=2^2 \times 3^2$, $48=2^4 \times 3$
- 2 **For HCF: Take LOWEST power of COMMON primes**
HCF-or jonyo: Sadharon moul sankhyar SABCHEYE CHOTO ghaat nao
- 3 **For LCM: Take HIGHEST power of ALL primes**
LCM-or jonyo: Sab moul sankhyar SABCHEYE BORO ghaat nao
- 4 **Multiply selected factors to get HCF/LCM**
Nowa ghaat-r gunanphal koro — xiyakei HCF/LCM

Visual Factor Tree: HCF & LCM of 36 and 48

Prime Factorisation of 36

$$36 = 2 \times 2 \times 3 \times 3$$

36	÷2	18
18	÷2	9
9	÷3	3
3	÷3	1

Prime Factorisation of 48

$$48 = 2 \times 2 \times 2 \times 2 \times 3$$

48	÷2	24
24	÷2	12
12	÷2	6
6	÷2	3
3	÷3	1

HCF = $2^2 \times 3 = 12$ (Take LOWEST power of common primes | Sadharon moul sankhyar sabcheye choto ghaat)
 LCM = $2^4 \times 3^2 = 144$ (Take HIGHEST power of ALL primes | Sab moul sankhyar sabcheye boro ghaat)

Example with 3 numbers: 12, 18, 24

Number	Prime Factorisation	Assamese
12	$2^2 \times 3$	$12 = 2 \times 2 \times 3$
18	2×3^2	$18 = 2 \times 3 \times 3$
24	$2^3 \times 3$	$24 = 2 \times 2 \times 2 \times 3$
HCF	$2^1 \times 3^1 = 6$	Sabcheye choto ghaat: $2^1 \times 3^1 = 6$
LCM	$2^3 \times 3^2 = 72$	Sabcheye boro ghaat: $2^3 \times 3^2 = 72$

SECTION 4: Method 2 — Division Method | Vibhajan Pranal (Ladder Method)

Sorol aru dhрут — exam-ot beshi bya howa pranal. Sādhiye vibhajan kori lar.

Division / Ladder Method (English): Divide by common prime factors step by step. This is the fastest method for finding LCM in exams.

Assamese Roman: Sadharon moul sankhya-re ek ek vibhajya karo. LCM-or jonyo sab thori porite vibhajok-r gunita karo. Exam-ot sobcheye dhрут pranal.

Prime	12	18	24	Note / Assamese
÷2	6	9	12	All divisible by 2 Saboloi 2-re bibhajya
÷2	3	9	6	12,24 div by 2; 9 stays 9 ekei thake
÷2	3	9	3	12→3, 24→3 Dutar 2-re vibhajya
÷3	1	3	1	All divide by 3 3-re vibhajya
÷3	1	1	1	Final row all 1 Saboloi 1 hole stop
LCM	=	2×2×2×3×3	=	72 Primilok gunita karo

Division Method Rules (Vibhajan Pranal-r Niyom):

- Divide by smallest prime that divides AT LEAST ONE number | Kemkal ekta sankhyak vibhajya kore emon prime nao
- Numbers not divisible → write as is (carry down) | Vibhajya nohola sankhya tiyakei likha
- Stop when ALL quotients are 1 | Saboloi 1 hole stop karo
- LCM = Product of ALL divisors used | LCM = Sab vibhajok-r gunanphal
- For HCF by division: only divide when prime divides ALL numbers simultaneously

SECTION 5: Method 3 — Euclidean Algorithm | Euclid-r Vibhajan Niyom

HCF-or jonyo sobcheye nisthunar pranal — bori sankhyar HCF-or jonyo ati upokari.

Euclidean Algorithm (English): Repeatedly divide the larger number by the smaller. The last non-zero remainder is the HCF. Works for any two numbers extremely fast.

Assamese Roman: Boro sankhyak choto-re bhag karo, bhagshesh nao. Tiyakei porer vibhajok koro. Shesh non-zero bhagshesh = HCF. Bori sankhyar HCF ati dhrute bhar jay.

Euclidean Algorithm for HCF(48, 18) | Assamese: Euclid-r Vibhajan Niyom

1 $48 = 18 \times 2 + 12$ Remainder = 12, continue...

2 $18 = 12 \times 1 + 6$ Remainder = 6, continue...

3 $12 = 6 \times 2 + 0$ ← Remainder = 0 ∴ HCF = 6

HCF(48, 18) = 12 | Assamese: Euclid-r niyom-e HCF = 12

Euclidean Algorithm for HCF(252, 105) | Assamese: Euclid-r Vibhajan Niyom

1 $252 = 105 \times 2 + 42$ Remainder = 42, continue...

2 $105 = 42 \times 2 + 21$ Remainder = 21, continue...

3 $42 = 21 \times 2 + 0$ ← Remainder = 0 ∴ HCF = 21

HCF(252, 105) = 21 | Assamese: Euclid-r niyom-e HCF = 21

TRICK 1 Euclidean in Seconds — Mental Math

If $a = qb + r$, then $HCF(a,b) = HCF(b,r)$

Example: $HCF(91,77) \rightarrow 91=77 \times 1+14 \rightarrow HCF(77,14) \rightarrow 77=14 \times 5+7 \rightarrow HCF(14,7) \rightarrow 14=7 \times 2+0 \rightarrow HCF=7$

Assamese: Bar bar bhag karo, shesh zero hole agore divisor-e HCF.

Speed tip: If both numbers divisible by small prime (2,3,5), divide first to reduce!

SECTION 6: HCF & LCM of Fractions & Decimals | Bhag aru Dashomik

Bhag sankhyar HCF/LCM-r xutro alag — ei beshi bul howa bishay!

HCF of Fractions = $\frac{\text{HCF}(\text{Numerators})}{\text{LCM}(\text{Denominators})}$

LCM of Fractions = $\frac{\text{LCM}(\text{Numerators})}{\text{HCF}(\text{Denominators})}$

HCF of Decimals Convert to same decimal places → find HCF → put decimal b

LCM of Decimals Convert to same decimal places → find LCM → put decimal b

Problem	Step	Result	Assamese
HCF(1/2, 2/3, 3/4)	HCF(1,2,3)=1 LCM(2,3,4)=12	HCF = 1/12	Horota-r HCF / Lanorota-r LCM
LCM(1/2, 2/3, 3/4)	LCM(1,2,3)=6 HCF(2,3,4)=1	LCM = 6/1 = 6	Horota-r LCM / Lanorota-r HCF
HCF(0.6, 0.9, 1.2)	×10: 6,9,12 → HCF=3 → ÷10	HCF = 0.3	Dashomik ekei kori HCF
LCM(0.5, 0.25, 0.75)	×100: 50,25,75 → LCM=150 → ÷100	LCM = 1.5	Dashomik ekei kori LCM

IMPORTANT — Common Mistake (Sadharon Bhul):

- Students often swap the formulas! Remember: HCF of fractions has LCM in denominator.
- Bhul: Bhag sankhyar HCF/LCM-r xutro ulotai bya kora hoy — sabar mone rakhibar niyom:
- $\text{HCF} = \frac{H}{L}$ (HCF over LCM) | $\text{LCM} = \frac{L}{H}$ (LCM over HCF)
- Memory tip: $H = \frac{\text{HCF}(\text{top})}{\text{LCM}(\text{bottom})}$ | $L = \frac{\text{LCM}(\text{top})}{\text{HCF}(\text{bottom})}$

SECTION 7: Real-Life Applications | Bastob Jibonar Prayog

HCF aru LCM kune bya hoy — ei bojhile exam-ot question-r type dhora jai!

HCF Use Cases

- **Cutting / distributing equally**
Samaan bhaage kata ba bitoron — HCF bya koribo
- **Largest tile / group size**
Sobcheye boro tile ba dal-r akhar — HCF
- **Greatest common measure**
Sobcheye boro sadharon map — HCF
- **Reduce a fraction**
Bhag sorol kora — HCF-re bhag karo

LCM Use Cases

- **Events repeating together**
Ghatona eku samayot hua — LCM bya koribo
- **Bell / light problems**
Ghanti / bulor proshn — LCM
- **Smallest number divisible by all**
Sabgulir sadharon gunita — LCM
- **Add/subtract unlike fractions**
Bishorojat bhag jog/biog — LCM

Question Type	Use	Why?	Assamese
Tiles for a room	HCF	Largest tile that fits both sides	Sobcheye boro tile — HCF
Bells ringing together	LCM	Next time all ring simultaneously	Ekosongge bajibo — LCM
Distribute equally in groups	HCF	Largest group size	Sobcheye boro dal — HCF
Rope cut into equal pieces	HCF	Longest piece with no wastage	Lomba katne — HCF
Least laps to finish together	LCM	First time both at start	Ekosongge paobo — LCM
Add unlike fractions	LCM	Common denominator needed	Sadharon lanota — LCM
Find a number divisible by all	LCM	Smallest common multiple	Sadharon gunita — LCM
Greatest number dividing all	HCF	Largest common factor	Sobcheye boro vibhajok — HCF

SECTION 8: Short Tricks & Formulas | Choto Koushol o Xutro*Exam-ot somoye bachaba — ei tricks mone rakhibi!***TRICK 2 Find number from HCF and ratio**

If $HCF=H$ and numbers are in ratio $a:b$, then numbers = Ha and Hb

Example: $HCF=7$, ratio= $3:5 \rightarrow$ Numbers = 21 and 35

Check: $HCF(21,35)=7 \checkmark$ | $LCM(21,35)=105=21 \times 5=35 \times 3 \checkmark$

Assamese: $HCF=H$, anupat $a:b$ hole sankhyaduta = Ha aru Hb

TRICK 3 n consecutive numbers — LCM trick

LCM of $(n, n+1)$ always = $n \times (n+1)$ [consecutive numbers are always co-prime]

Example: $LCM(8,9)=72=8 \times 9$. $LCM(14,15)=210=14 \times 15$

But $LCM(8,10) \neq 80$. Only works for CONSECUTIVE numbers.

Assamese: Parbortiman dutar sankhya hamesha co-prime, tai LCM = gunanphal

TRICK 4 Find least number leaving same remainder

Step 1: Subtract remainder from each number.

Step 2: Find HCF of differences.

Example: Find greatest number dividing 43,91,183 leaving $R=3$

$\rightarrow 43-3=40, 91-3=88, 183-3=180$. $HCF(40,88,180) = 4$. Answer=4

Assamese: Bakhi biog karo, pore HCF lar — sei answer

TRICK 5 Smallest number divisible by all with remainder r

Formula: Answer = $LCM(\text{numbers}) + r$

Example: Smallest number divisible by 4,5,6 leaving $R=3$

$\rightarrow LCM(4,5,6)=60$. Answer= $60+3=63$

Assamese: $LCM + \text{bakhi} = \text{answer}$

TRICK 6 HCF of numbers ending in same pattern

If a number n divides $(a-b)$, then $HCF(a,b)$ is a multiple of that n .

Example: HCF(551, 506): $551-506=45$. So HCF divides 45.

Factors of 45: 1,3,5,9,15,45. Check which divides both \rightarrow 23? Try: $551=23 \times 23 + 22$? No.

Method: use Euclidean. $HCF(551,506)$: $551=506 \times 1 + 45$, $506=45 \times 11 + 11$, $45=11 \times 4 + 1$, $11=1 \times 11$. $HCF=1$

Assamese: Porthokyo-r vibhajok check karo

SECTION 9: Solved Examples — Easy to Hard | Udahoron

SI level lohi sorol udahoron — step by step solution sahiti

■ EASY LEVEL | Sorol Stor

Q1 (EN): Find the HCF and LCM of 24 and 36.

Q1 (Assamese): 24 aru 36-r HCF aru LCM ki?

Prime factorisation: $24 = 2^3 \times 3$, $36 = 2^2 \times 3^2$

HCF = $2^2 \times 3 = 12$ (lowest powers of common primes)

LCM = $2^3 \times 3^2 = 72$ (highest powers of all primes)

Check: $\text{HCF} \times \text{LCM} = 12 \times 72 = 864 = 24 \times 36 \checkmark$

Answer: HCF = 12, LCM = 72 | Assamese: HCF=12, LCM=72, check: $12 \times 72 = 864 = 24 \times 36 \checkmark$

Q2 (EN): Three bells ring at intervals of 9, 12 and 15 minutes. They ring together at 8:00 AM. When will they next ring together?

Q2 (Assamese): Tinota ghanti 9, 12, 15 minit antore baje. Sokal 8-ot ekosongge bajile pore kune?

LCM(9, 12, 15):

$9 = 3^2$, $12 = 2^2 \times 3$, $15 = 3 \times 5$

LCM = $2^2 \times 3^2 \times 5 = 4 \times 9 \times 5 = 180$ minutes = 3 hours

Next time = 8:00 AM + 3 hours = 11:00 AM

Answer: 11:00 AM | Assamese: 180 min = 3 ghanta. 8 AM + 3 ghanta = 11 AM

Q3 (EN): Find HCF($1/3$, $2/9$, $5/6$).

Q3 (Assamese): $1/3$, $2/9$, $5/6$ -r HCF ki?

HCF of fractions = HCF(Numerators) / LCM(Denominators)

HCF(1, 2, 5) = 1

LCM(3, 9, 6) = 18

HCF = $1/18$

Answer: HCF = $1/18$ | Assamese: Horota-r HCF / Lanorota-r LCM = $1/18$

■ MEDIUM LEVEL | Moddhom Stor

Q4 (EN): The LCM of two numbers is 495 and their HCF is 5. If the sum of the numbers is 100, find the numbers.

Q4 (Assamese): LCM=495, HCF=5, jog=100. Sankhya duta ki?

Let numbers = $5a$ and $5b$ (where a, b are co-prime)

LCM = $5 \times a \times b = 495 \rightarrow a \times b = 99$

Sum: $5a + 5b = 100 \rightarrow a + b = 20$

Solve: $a + b = 20$, $a \times b = 99 \rightarrow (a - b)^2 = (a + b)^2 - 4ab = 400 - 396 = 4 \rightarrow a - b = 2$

$a = 11$, $b = 9 \rightarrow$ Numbers = 55 and 45

Answer: Numbers = 55 and 45 | Assamese: $a = 11$, $b = 9$. Sankhya = 55 aru 45

Q5 (EN): Find the greatest number that divides 2011 and 2623, leaving remainders 9 and 5 respectively.

Q5 (Assamese): 2011-k 9 bakhi aru 2623-k 5 bakhi diya sobcheye boro sankhya ki?

Subtract remainders: $2011-9 = 2002$, $2623-5 = 2618$

Now find HCF(2002, 2618):

$$2618 = 2002 \times 1 + 616$$

$$2002 = 616 \times 3 + 154$$

$$616 = 154 \times 4 + 0$$

$$\text{HCF} = 154$$

Answer: Greatest number = 154 | Assamese: Bakhi biog kori HCF lar = 154

Q6 (EN): The HCF of two numbers is 11 and their LCM is 7700. If one number is 275, find the other.

Q6 (Assamese): HCF=11, LCM=7700, eku sankhya 275. Anuta ki?

$$\text{Other number} = (\text{HCF} \times \text{LCM}) / \text{First} = (11 \times 7700) / 275$$

$$= 84700 / 275 = 308$$

Answer: Other number = 308 | Assamese: (11×7700)/275 = 308

■ HARD LEVEL — SI Standard | Kothin Stor

Q7 (EN): Find the smallest number which when divided by 8, 12, 15 and 20 leaves remainder 5 in each case, but is divisible by 9.

Q7 (Assamese): 8,12,15,20-re bhag korile 5 bakhi thake, kintu 9-re nikhutoi vibhajya — sobcheye choto sankhya ki?

$$\text{LCM}(8, 12, 15, 20) = 120$$

Numbers leaving R=5: $120k + 5$ (for $k=1,2,3,\dots$)

$$k=1: 125. 125 \div 9 = 13R8. \text{ No.}$$

$$k=2: 245. 245 \div 9 = 27R2. \text{ No.}$$

$$k=3: 365. 365 \div 9 = 40R5. \text{ No.}$$

$$k=4: 485. 485 \div 9 = 53R8. \text{ No.}$$

$$k=5: 605. 605 \div 9 = 67R2. \text{ No.}$$

$$k=6: 725. 725 \div 9 = 80R5. \text{ No.}$$

$$k=7: 845. 845 \div 9 = 93R8. \text{ No.}$$

$$k=8: 965. 965 \div 9 = 107R2. \text{ No.}$$

$$k=9: 1085. 1085 \div 9 = 120R5. \text{ No.}$$

$$k=15: 1805. 1805 \div 9 = 200R5. \text{ No. Try: need } 120k+5 \equiv 0 \pmod{9}. 120 \equiv 3 \pmod{9}. 3k+5 \equiv 0 \pmod{9}.$$

$$3k \equiv 4 \pmod{9} \rightarrow k \equiv 6 \pmod{3}. \text{ So } k=6,9,12,\dots$$

$$k=6: 725. 725/9=80.5. \text{ No. Actually } 3 \times 6 + 5 = 23 \equiv 5 \pmod{9} \text{ not } 0. \text{ Let me redo: } 120k+5 \equiv 0 \pmod{9}. 120=13 \times 9 + 3, \text{ so } 120 \equiv 3.$$

$$3k+5 \equiv 0. 3k \equiv -5 \equiv 4 \pmod{9}. k=? 3 \times 1=3, 3 \times 2=6, 3 \times 3=9 \equiv 0, 3 \times 4=12 \equiv 3, 3 \times 5=15 \equiv 6, 3 \times 6=18 \equiv 0 \dots 3k \equiv 4 \text{ has no solution}$$

$$\pmod{9} \text{ since } \text{gcd}(3,9)=3 \text{ doesn't divide } 4. \text{ So add } 9 \text{ more to LCM: } \text{LCM} \times 9 = 1080. 1080k+5 \text{ that's divisible by } 9.$$

$$1080 \text{ is div by } 9. 5 \text{ not. So no } k \text{ works. Correcting: } \text{LCM}(8,12,15,20,9). \text{LCM}=360. \text{Answer}=360+5=365.$$

$$\text{CORRECTED: } \text{LCM}(8,12,15,20,9)=360. \text{Answer} = 360+5 = 365$$

Answer: Smallest number = 365 | Assamese: LCM(8,12,15,20,9)=360. 360+5=365

Q8 (EN): A rectangular courtyard 3.78 m long and 5.25 m wide is to be paved exactly with square tiles of same size. What is the largest size of tile?

Q8 (Assamese): 3.78 m lo  aru 5.25 m pohl aangan-ot same akhar-r bargo tile lagibo. Sobcheye boro tile kiman?

Convert to cm: 378 cm and 525 cm

Largest square tile = HCF(378, 525)

$$525 = 378 \times 1 + 147$$

$$378 = 147 \times 2 + 84$$

$$147 = 84 \times 1 + 63$$

$$84 = 63 \times 1 + 21$$

$$63 = 21 \times 3 + 0$$

$$\text{HCF} = 21 \text{ cm}$$

Answer: Largest tile = 21 cm × 21 cm | Assamese: HCF(378,525)=21. Tile akhar = 21 cm

FINAL EXAM TIPS — Parikkhar Shesh Paromorso:

- HCF × LCM = a × b — NEVER forget this formula! | Ei xutro kabio naapahibi!
- HCF for 'equal distribution/cutting' | LCM for 'together again/common multiple'
- For fractions: HCF=H(num)/L(den), LCM=L(num)/H(den) | Bhag-r jonyo ulto
- Euclidean method fastest for large numbers | Boro sankhyar jonyo Euclid-r niyom dhrit
- In questions with 'remainder', subtract remainder first, then find HCF | Bakhi biog kori tope HCF
- Assamese: Exam-ot LCM/HCF-r proshn protibar ase — methods aru tricks bhalokoiye mone rakhibi!