

STAR PUBLIC SCHOOL

Dear Parents,

Today's assignment (class 5th)

👉 Maths - Lesson - 5 fraction

👉 Maths - chapter -3 fractions
and multiply in notebook
g

Home Assignment-

👉 Maths - L-3, do in notebook
page no -54,55

👉 Hindi - revision vachan badlo ,
kriya

12:41 PM ✓✓



① Example: Find the LCM of 45, 75 and 90 by prime factorisation.

Solution

$$\begin{array}{rcl}
 45 & = & 3 \times 3 \times 5 \\
 75 & = & 3 \times 5 \times 5 \\
 90 & = & 2 \times 3 \times 3 \times 5
 \end{array}$$

LCM = $2 \times 3 \times 3 \times 5 \times 5 = 450$

$$\begin{array}{r}
 3 \overline{) 45} \\
 \underline{30} \\
 15 \\
 \underline{15} \\
 0
 \end{array}$$

$$\begin{array}{r}
 5 \overline{) 75} \\
 \underline{50} \\
 25 \\
 \underline{25} \\
 0
 \end{array}$$

$$\begin{array}{r}
 2 \overline{) 90} \\
 \underline{180} \\
 0
 \end{array}$$



② Example: Find the Lcm of 4864 and 72 using division method

solution

2	4	8	64	72
2	2	4	32	36
2	1	2	16	18
2		6	8	9
2		3	4	9
2		3	2	9
3		3	1	9
3		1	1	3
		1	1	1

so the Lcm of 48, 64 and 72 =

$$2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 = 576$$

6.



4/9/25

Apply

1. Find the HCF of the following numbers using prime factorisation.

Ans (a) 72 and 84

3	7	2
2	3	6
2	1	8
3		9
3		3
		1

2	1	8	0
2	8	4	0
3	4	21	5
3	2	11	5
7	7	7	5
		1	1

Prime factors of 72 = $2 \times 2 \times 2 \times 3 \times 3$

Prime factors of 84 = $2 \times 2 \times 3 \times 7$

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Common prime factors = $2 \times 2 \times 3$

HCF of 72 and 84 = 12

(b) 45 and 180

$$\begin{array}{r|l} 3 & 45 \\ \hline 3 & 15 \\ \hline 5 & 3 \\ \hline & 1 \end{array}$$

$$\begin{array}{r|l} 2 & 180 \\ \hline 2 & 90 \\ \hline 3 & 30 \\ \hline 3 & 10 \\ \hline 5 & 2 \\ \hline & 1 \end{array}$$

Prime factors of 45 = $3 \times 3 \times 5$

prime factors of 180 = $2 \times 2 \times 3 \times 3 \times 5$

$\times 3 \times 5$

Common prime factors = 5×3

HCF of 45 and 180 = 15

(c) 36 and 150



2	3	6
2	1	3
3		2
3		1

2	1	5	0
3		7	5
5		2	5
5			5
			1

prime factors of 36 = $2 \times 2 \times 3 \times 3$

prime factors of 150 = $2 \times 3 \times 5 \times 5$

5 3 2 2 3 5 5 2 3 5 5

common prime factors = 2×3

HCF of 36 and 150 = 6

dyd) 2460 and 140

2	2	4
2	1	2
2		6
3		3
		1

2	6	0
2	3	0
3	1	5
5		5
		1

2	1	4	0
2		7	0
5		3	5
7			7
			1



prime factors of 24 = $2 \times 2 \times 2 \times 3$

prime factors of 60 = $2 \times 2 \times 3 \times 5$

prime factors of 140 = $2 \times 2 \times 5 \times 7$

common prime factors = 2×2

HCF of 240 and 140 = 4

(c) 108264 and 324

2	108
2	54
3	27

2	264
2	132
2	66

2	324
2	162
3	81
3	27

prime factors of 324 = $2 \times 2 \times 3 \times 3 \times 3 \times 3$



common prime factors = $2 \times 2 \times 3$

HCF of 108 264 and 364 = 12

(F) 180 120 and 200

$$\begin{array}{r|l} 2 & 180 \\ \hline 2 & 90 \\ \hline 2 & 45 \\ \hline 3 & 15 \\ \hline 3 & 5 \\ \hline 5 & 1 \end{array}$$

$$\begin{array}{r|l} 2 & 120 \\ \hline 2 & 60 \\ \hline 2 & 30 \\ \hline 3 & 10 \\ \hline 5 & 2 \\ \hline 5 & 1 \end{array}$$

$$\begin{array}{r|l} 2 & 200 \\ \hline 2 & 100 \\ \hline 2 & 50 \\ \hline 5 & 10 \\ \hline 5 & 2 \\ \hline 2 & 1 \end{array}$$

prime factors of 180 = $2 \times 2 \times 3 \times 3 \times 5$

2×5

prime factors of 120 = $2 \times 2 \times 2 \times 3 \times 5$

$2 \times 3 \times 5$

prime factors of 200 = $2 \times 2 \times 2 \times 5 \times 5$

2×5



Common prime factors = $2 \times 2 \times 2$

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HCF of ~~80~~ 120 and 200 = 40

H.W

(g), (h), (i).

Apply (2), (3).