



Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

• , € f€,....†‡% Š†€•Ž € f€,....†••(H.C.F. and L.C.M.)

$\text{€} \cdot , \text{€ } f_{\text{€}, \dots, \dagger \% \text{€}} \cdot , f_{,,}, \dots, \dagger^{\wedge \%} \check{\text{S}} [\hat{f} \cdot \check{\text{Z}} \cdot < \% \dagger \dots]^{\cdot} \dagger f^{\prime \prime}, " - \sim^{\text{TM}} \dots]^{\cdot} \dagger \check{\text{S}} \cdot < \cdot \ddagger \text{œ} \check{\text{S}}^{\cdot} \dagger \check{\text{Z}}^{\wedge} \cdot \dagger \check{\text{Z}}^{\prime \prime} \% < \check{\text{Z}} \% - f^{\prime \prime \ddot{\vee}} " \dots \text{€}$

$f \in \dots, \dagger \dagger \% \text{ (Common Factor) } \in \mathbb{E} \dots - \dots \cdot \dagger \dagger \dots \cdot \dagger \dagger \dots \cdot \checkmark \cdot < \dots \cdot \dagger \checkmark \cdot, \alpha \dots \forall \dagger \cdot < < \dagger \checkmark - \in \dagger \checkmark - \checkmark \wedge \cdot \dagger \checkmark \cdot \% < \checkmark \alpha, \dots \in$
 $10, 20, 30 < \dagger \dots, \dagger \dagger \wedge \% \checkmark 2, 5, 10 f \ddot{\vee}$

[illegible]

$f \in \dots, t \cdot \cdot \wedge$ (Common Multiple) $\in j < \dots ' t " \cdot \cdot \cdot ' t \cdot \cdot \cdot \cdot \checkmark \cdot < \dots ' t \checkmark \cdot, \text{or} \dots \forall j ' < \dots \ddagger \checkmark - \epsilon \ddagger \checkmark - \checkmark \cdot ' \ddagger "$ $\% f \cdot \%_0 - f \cdot,$
 $\%_0 \cdot \wedge f \dots ' t \neg \dots ' t \checkmark \cdot < \dots, \ddagger \wedge ' | \checkmark f \S t \%_0 - f "$, $" \dots \epsilon 3, 5, 6 < t \dots, \ddagger \wedge ' | \checkmark 0, 60, 90 \cdot \checkmark - f 3 \checkmark$

[illegible]

€ • , € f € „... † ± % ' „ ± % “ ” • % - - † - ~ • „™

1. ŠŽ"œ•ž-†-~ € ¶...žž•, α—~™ ...•-...•'†š•<•, ~@-¹º» <ž% f³ÿ%µ†"•...•'†;€..- , α..~š¼½ f⁻-†~@† <ž% f³ÿ

”... € 28,42 3/4ž 98 <†,..... €

28, 42 ¾ 98 <†, = 2 7 = 14

2. „š-†-~ € ¶... ž~ž• , — ~™ ...• '† š• , α... ..č... a•«- ...• '†čÄ- ...• '† , α•†~ -% f³, %|†ÁÄ†%ÄÄ ±Ä ... •† < , α•†~ ž-† '† †%† f“¾ž ž• ž° '† %č% < ž% f³, "č% < ±Ä ±Ä čÄ , %č• žÄ% , •† < f- — f©...• '† š• <† , f•~† 'ž- ...• '† %-- f³, %• ¥†f% , %u† %--ž- ...• '† < ...† μ , f-ž° '† < ž% f³Ÿ ~ ~ ¶...- %žž f < ž% "†% f³|

”... € 36,54,81 <†,..... €

...[^]Šμ, 36%μ† 54 <†, ¶... Ž[^]Ž• ... Ž- <†§% f³Ÿ



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$$2^2 \times 36 \times 54 \times \dots = 18$$

$$2, 18 \times 81 \times \dots \times 81 \times 3^3$$

$$2^2 \times 36 \times 54 \times 81 \times \dots \times 9 \times 3^3$$

1. 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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$$2^2 \times 36 \times 54 \times 81 \times \dots \times 9 \times 3^3$$

$$16 = 2^4$$

$$24 = 3 \times 2^3$$

$$40 = 5 \times 2^3$$

$$42 = 7 \times 3 \times 2$$

$$2^4 \times 3 \times 5 \times 7 = 16 \times 105 = 1680$$

2. 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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2. 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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$$\frac{7}{10} = 7/10,$$

$$10.5 = 105/10,$$

$$1.4 = 14/10$$

$$\therefore \frac{7}{10} = (7 \div 10) = 0.7$$

Example 1: Find the value of $\frac{7}{10}$.

$$\frac{7}{10} = \frac{7 \div 10}{10 \div 10} = \frac{0.7}{1} = 0.7$$

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Example 2: Find the value of $\frac{14}{10}$.

$$\frac{14}{10} = \frac{14 \div 10}{10 \div 10} = \frac{1.4}{1} = 1.4$$

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Multiple Choice Questions

Ques. 1: Find the value of $\frac{14}{10}$.
Options: (A) 1.4, (B) 1.2, (C) 1.0, (D) 0.7

○ (A) 120



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- ☐ (B) 140
- ☐ (C) 168
- ☐ (D) 210

Ques. 2: If the sum of two numbers is 144 and their HCF is 12, then their LCM is

- ☐ (A) 24
- ☐ (B) 48
- ☐ (C) 36
- ☐ (D) 72

Ques. 3: If the sum of two numbers is 100 and their HCF is 10, then their LCM is

- ☐ (A) 300
- ☐ (B) 600
- ☐ (C) 150
- ☐ (D) 200

Ques. 4: If the sum of two numbers is 132 and their HCF is 12, then their LCM is

- ☐ (A) 22
- ☐ (B) 33
- ☐ (C) 44
- ☐ (D) 66

Ques. 5: If $\text{GCD}(x, 180) = 6$ and $\text{LCM}(x, 180) = 540$, then the value of x is



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- ☐ (A) 18
- ☐ (B) 36
- ☐ (C) 54
- ☐ (D) 72

Ques. 6: 36, 60 का 84 का HCF और LCM का गुणोत्तर है

- ☐ (A) 420
- ☐ (B) 840
- ☐ (C) 1260
- ☐ (D) 180

Ques. 7: 105 का 252 का HCF और GCD का गुणोत्तर है

- ☐ (A) 21
- ☐ (B) 35
- ☐ (C) 42
- ☐ (D) 70

Ques. 8: 48 का 90 का HCF और LCM का गुणोत्तर है

- ☐ (A) 180
- ☐ (B) 240
- ☐ (C) 360
- ☐ (D) 420

Ques. 9: 99 का 121 का HCF और LCM का गुणोत्तर है



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- ☐ (A) 1089
- ☐ (B) 1210
- ☐ (C) 1199
- ☐ (D) 1001

Ques. 10: 108, 144, 180 में GCD का मान क्या है?

- ☐ (A) 12
- ☐ (B) 18
- ☐ (C) 36
- ☐ (D) 24

Ques. 11: 108, 144, 180 में LCM का मान क्या है?

- ☐ (A) 216
- ☐ (B) 324
- ☐ (C) 432
- ☐ (D) 288

Ques. 12: 108, 144, 180 में GCD का मान क्या है?

- ☐ (A) 30
- ☐ (B) 60
- ☐ (C) 90
- ☐ (D) 120

Ques. 13: यदि $a \times b = 4320$ और $\text{GCD}(a,b)=12$ हो तो $\text{LCM}(a,b)$ का मान क्या है?



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- ☐ (A) 360
- ☐ (B) 432
- ☐ (C) 3600
- ☐ (D) 4320

Ques. 14: 32, 48 aur 80 ka LCM _____ है।

- ☐ (A) 240
- ☐ (B) 320
- ☐ (C) 480
- ☐ (D) 160

Ques. 15: 56 aur 98 का GCD _____ है।

- ☐ (A) 14
- ☐ (B) 28
- ☐ (C) 7
- ☐ (D) 21

Ques. 16: 45 और 75 का LCM _____ है।

- ☐ (A) 150
- ☐ (B) 225
- ☐ (C) 90
- ☐ (D) 180

Ques. 17: 84, 126 और 210 का GCD _____ है।



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- ☐ (A) 14
- ☐ (B) 21
- ☐ (C) 42
- ☐ (D) 28

Ques. 18: If $\text{LCM}(24, x) = 120$ and $\text{GCD}(24, x) = 6$, find the value of x .

- ☐ (A) 30
- ☐ (B) 36
- ☐ (C) 48
- ☐ (D) 60

Ques. 19: If $\text{LCM}(420, 594) = 2310$ and $\text{GCD}(x, 420) = 14$, find the value of x .

- ☐ (A) 42
- ☐ (B) 18
- ☐ (C) 6
- ☐ (D) 126

Ques. 20: If $\text{LCM}(252, 360) = 1260$ and $\text{GCD}(x, 252) = 18$, find the value of x .

- ☐ (A) 1260
- ☐ (B) 1512
- ☐ (C) 2520
- ☐ (D) 1800