



	<u> </u>	
ı.	The H.C.F. of any two prime numbers is	(a) 400 (b) 500 (c) 600 (d) 1800
	(a) 0 (b) 1	The H.C.F. of the fall
	(c) 2	$3^{-3} \times 3^{-3} \times 7$ and $2^{2} \times 3^{4} \times 5^{2} \times 7$
2.	The H.C.F. of 24 and 60 is	(6) 6 (6) 9 (6) 26
	(a) 4 (b) 6 (c) 12	20. The G.C.D. of 54, 81, 270 and 135 is
3.	Find the H.C.F. of 144 and 168.	(a) 3 (b) 6 (c) 9 (b) 22
	(a) 6 (b) 4 (c) 12	21. The L.C.M. of 12, 18 and 24 is
4.	The H.C.F. of 16, 24 and 48 is:	(a) 64 (b) 72 (c) 84 (d) 144
	(a) 2 (b) 4 (c) 4	22. Find the L.C.M. of 48, 64 and 120.
5.	Find the H.C.F. of 72, 144 and 216.	(a) 840 (b) 920 (c) 960 (d) 1920
	(4) 46 (1) 44	23. Find the L.C.M. of 24, 36 and 40.
6.	(6) 18 (6) 12	(a) 360 (b) 720 (c) 540 (d) 620
	Find the H.C.F. of 2502 and 3654.	24. The lowest common multiple of 75, 150 and 275 is
7.	(c) 18 (d) 24	(a) 1030 (b) 1840 (c) 1760 (d) 1590
	Find the greatest number that divides 36, 60 and 84 exa	tly. 25. The smallest number which is exactly divisible by 10, 15
8.	(a) 12 (b) 6 (c) 18 (d) 4	410 4.7 IS
о.	The greatest possible length (in cm) which can be use	(c) 130 (d) 180
	(a) 16 cm chargens 495 cm, 900 cm and 1665 cm exact	
9.	(c) 33 (d) 45	(a) $2^2 \times 3^2$ (b) $2^2 \times 3^2 \times 5$ and $2^2 \times 3^3$ is (c) $2^4 \times 3^4$ (d) $2^4 \times 3^4 \times 5^2$
*	The length of the longest tape (in cm) which can be	
	to measure the lengths 7 m, 3 m 85 cm and 12 m 95 exactly is	2 × 3 × 5 × 11 is
	(a) 37 (b) 35	(a) $2^3 \times 3^2 \times 5^2 \times 7^2 \times 11$ (b) $2^2 \times 2^2 \times 5 \times 7^2 \times 11$
10.	(6) 20 (4) []	
	The dimensions of a room are 10 m, 12 m and 18 m, the length of the greatest possible scale which can mea	
	all these dimensions exactly.	10.
	(a) 1 m (b) 2 m (c) 5 m (d) 180 m	(a) 32 (b) 36 (c) 48 (d) 64
11.	The H.C.F. of 432 and 1440 is	29. The H.C.F. of any two co-primes is
	(a) 36 (b) 72 (c) 144 (d) 18	(a) 0 (b) 1
12.	What is the maximum length of equal pieces that can b	(c) 2 (d) any natural number
	from two rods of lengths 162 cm and 234 cm?	and any two co-primes is always equal to their
	(a) 18 cm (b) 9 cm (c) 36 cm (d) 6 cm	(b) directice
13.	The highest common factor of 24, 48 and 84 is:	(a) quenem
	(a) 4 (b) 6 (c) 8 (d) 12	should be
14.	two consecutive natural number	ers? (a) 1 (b) 195
	(a) 0 (b) 1	(c) 15 (d) cannot be determined
	(c) 2 (d) any natural number	32. Six bells commence tolling together and toll at the intervals
15.	What is the H.C.F. of two or more consecutive numbers?	ven of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes.
	(a) 0 (b) 1	how many times do they toll together?
	(c) 2 (d) any even natural numb	(a) 30 (b) 8 (c) 15 (d) 16
16.	What is the H.C.F. of two or more consecutive odd num	55. The bells of three schools begin to toll together and after
	(a) 0 (b) 1	that they toll at the intervals of 25, 40 and 60 minutes. After what interval of time will they again toll together?
	(c) 2 (d) any odd natural numbe	
17.	The H.C.F. of an even number and an odd number is al	
	equal to:	34. Find the least number which is exactly divisible by 18, 2-
	(a) 0 (b) 1	and 27.
	(c) 2 (d) any odd natural numbe	(a) 216 (b) 256 (c) 432 (d) 512







35.	There are three scales of 40 cm, 50 cm and 60 cm						
	respectively. What is the least length that can exactly be						
	measured by these three scales?						

- (b) 6 m
- (c) 12 m
- 36. Three bells ring simultaneously at 11:00 a.m. They ring at regular intervals of 20, 30 and 40 minutes respectively. The time when all the three bells will ring together next is
 - (a) 1:00 p.m.
- (b) 1:30 p.m.
- (c) 1:45 p.m.
- (d) 2:00 p.m.
- 37. The L.C.M. of three different numbers is 264. Which of the following cannot be their H.C.F.?
 - (a) 6
- (c) 12
- (d) 15
- 38. The L.C.M. of three different numbers is 486. Which of the following can be their H.C.F.?
 - (a) 18
- (b) 15
- (c) 16
- (d) 24
- The least possible number which is exactly divisible by 21, 49 and 63 is
 - (a) 379
- (b) 441
- (c) 476
- 40. Three bells ring at the intervals of 15, 18 and 30 minutes respectively. They started ringing simultaneously at 9:00 a.m. What will be the next time, when they all ring together?
 - (a) 10:00 a.m.
- (b) 10:15 a.m.
- (c) 10:30 a.m.
- (d) 10:45 a.m.
- 41. The greatest number that divides 729 and 901 leaving remainders 9 and 5 respectively is
- (b) 12
- (c) 16
- 42. Find the greatest number which divides 41, 71 and 91, leaving remainder 1 in each case.
 - (a) 5
- (b) 10
- (c) 15
- (d) 20
- 43. Find the largest number which divides 167 and 95 leaving 5 as remainder in each case.
 - (a) 18
- (b) 9
- (c) 12
- 44. Find the largest number that divides 98 and 76 leaving 2 and 4 as remainders respectively.
 - (a) 12
- (b) 16
- (c) 18
- (d) 24
- 45. Find the greatest number that will divide 43, 91 and 183 so as to leave the same remainder in each case.
 - (a) 4
- (c) 12
- The greatest number that divides 140, 176 and 264 leaving remainders 4, 6 and 9 respectively, is
- (b) II
- (c) 13
- (d) 17
- 47. The greatest number that divides 19, 35 and 59 so as to leave the same remainder is each case is
- (b) 7
- (c) 8
- (d) 9
- 48. If H.C.F. and L.C.M. of two numbers 'a' and 'b' are x and y respectively, then which of the following expressions is correct?
 - (a) a+b-x+y
- (c) $a \times x = b \times y$ (d) $\frac{a}{b} = \frac{x}{y}$

- The L.C.M. of the two numbers is 48. If the numbers are 16 and 24, then their H.C.F. is
 - (a) 4
- (b) 6
- (d) 12
- The H.C.F. of two numbers is 5 and their L.C.M. is 225. If one of the numbers is 45, then the other number is
 - (a) 15
- (b) 20
- (c) 35
- (d) 25
- The H.C.F. of two numbers is 11 and their L.C.M. is 7700. If one of the numbers is 275, then the other number is
 - (a) 288
- (b) 308
- (c) 342
- (d) 384
- The product of two numbers is 2028 and their H.C.F. is 13. The L.C.M. of the numbers is
 - (a) 2028
- (b) 136
- (c) 156
- 53. H.C.F. of two numbers is 2 and product of these two numbers is 2340. Find the L.C.M. of the two numbers.
- (6) 980
- (c) 1020
- H.C.F. and L.C.M. of two numbers are 10 and 60 respectively. One of the numbers is 20, find the other number.
 - (a) 15
- (b) 25
- (c) 30
- 55. The H.C.F. of $\frac{a}{b}$, $\frac{c}{d}$ and $\frac{e}{c}$ is equal to:
 - (a) $\frac{\text{H.C.F. of } a, c, e}{\text{L.C.M. of } b, d, f}$ (b) $\frac{\text{H.C.F. of } b, d, f}{\text{L.C.M. of } a, c, e}$
 - (c) $\frac{\text{H.C.F. of } a, c, e}{\text{H.C.F. of } b, d, f}$ (d) $\frac{\text{L.C.M. of } a, c, e}{\text{H.C.F. of } b, d, f}$
- **56.** The L.C.M. of $\frac{p}{a}$, $\frac{r}{s}$ and $\frac{t}{u}$ is equal to:
 - (a) $\frac{\text{L.C.M. of } p, r, t}{\text{L.C.M. of } q, s, u}$ (b) $\frac{\text{L.C.M. of } p, r, t}{\text{H.C.F. of } q, s, u}$
- - (c) $\frac{\text{H.C.F. of } p, r, t}{\text{L.C.M. of } q, s, u}$ (d) $\frac{\text{H.C.F. of } p, r, t}{\text{L.C.M. of } q, s, u}$
- 57. The H.C.F. of $\frac{9}{10}$, $\frac{12}{15}$ and $\frac{21}{40}$ is

- (a) $\frac{3}{5}$ (b) $\frac{3}{120}$ (c) $\frac{252}{5}$ (d) $\frac{250}{120}$
- **58.** The H.C.F. of $\frac{3}{4}$, $\frac{5}{6}$ and $\frac{9}{10}$ is
 - (a) $\frac{1}{60}$ (b) $\frac{1}{2}$ (c) $\frac{45}{2}$

- **59.** The L.C.M. of $\frac{2}{3}$, $\frac{4}{9}$ and $\frac{5}{6}$ is
 - (a) $\frac{8}{27}$ (b) $\frac{20}{3}$ (c) $\frac{10}{3}$
- (d) $\frac{20}{27}$
- **60.** The L.C.M. of $\frac{2}{3}$, $\frac{3}{4}$, $\frac{4}{5}$, $\frac{5}{6}$ and $\frac{6}{7}$ is

- (a) 30 (b) $\frac{1}{60}$ (c) 60 (d) $\frac{1}{30}$



(b) 796

If one of the numbers is 204, then the other number is

(c) 756

LCM - HCF

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(d) 714



(d) 0.36

(a) 0.18 (b) 0.12 (c) 0.24

77. The least multiple of 7, which when divided by 6, 9, 15 and

			The reast maniple of 1, which when arriaded by 0, 2, 12 and				
	The H.C.F. of two numbers is 8. Which one of the following		18 leaves a remainder 4, is				
	can never be their L.C.M.?		(a) 324 (b) 336 (c) 348 (d) 364				
	(a) 24 (b) 48 (c) 56 (d) 60	78.	The least number which should be added to 2497 so that				
63.	Find the least number which when divided by 8, 12 and 15	70.	the sum is exactly divisible by 3, 4, 5 and 6 is				
	leaves remainder 1 in each case.						
	(a) 119 (b) 181 (c) 120 (d) 121						
		79.					
64.	The least number which when divided by 15, 20 and 36		that the new number obtained will be divisible by 30, 45				
	leaves 3 as remainder in each case is		and 60, is				
	(a) 177 (b) 183 (c) 243 (d) 153		(a) 47 (b) 133 (c) 33 (d) 87				
65.	A number when divided by 5, 9 and 13, leaves remainders	80.	L.C.M. of two numbers is 28 times of their H.C.F. The sum				
	2, 6 and 10 respectively. Such a least possible number is	ou.	of L.C.M. and H.C.F. is 1740. If one of the numbers is 24				
	(a) 492 (b) 542 (c) 582 (d) 612		then the other number is				
66	The least number which when divided by 6, 9, 12, 15 and		(a) 320 (b) 360 (c) 380 (d) 420				
	18 leaves the same reaminder 2 in each case is		, , , , , , , , , , , , , , , , , , ,				
	(a) 180 (b) 178 (c) 176 (d) 182	81.	Find the least number which when divided by 8, 10 and				
			12 leaves a remainder 5 but when divided by 13 leaves no				
67.	The smallest number which when divided by 3, 4, 5 and 6		remainder.				
	leaves remainders 2, 3, 4 and 5 respectively, is		(a) 725 (b) 845 (c) 785 (d) 865				
	(a) 61 (b) 60 (c) 59 (d) 119	87	Two numbers are in the ratio 3:5 and their L.C.M. is 75.				
68.	The greatest number of four digits which is divisible by 15,		What is their H.C.F.?				
	25, 40 and 75, is		(a) 3 (b) 5 (c) 10 (d) 15				
	(a) 9999 (b) 9800 (c) 9700 (d) 9600						
69.	The smallest 4-digit number which is exactly divisible by	83.	The ratio of two numbers is 3: 4 and their L.C.M. is 180.				
	7. 9 and 12 is		The greater number is				
	(a) 1004 (b) 1008 (c) 1012 (d) 1006		(a) 30 (b) 45 (c) 60 (d) 75				
		84.	The ratio of two numbers is 4:5. Their H.C.F. is 5. Their				
70.	The smallest 5-digit number which is exactly divisible by		L.C.M. is				
	18, 24 and 32 is		(a) 75 (b) 80 (c) 60 (d) 100				
	(a) 10040 (b) 10060 (c) 10080 (d) 10000						
71.	The greatest number of four digits which is divisible by 25.	85.	The L.C.M. of two numbers is 48. If the numbers are in the				
	40 and 60, is		ratio 2:3, then the sum of the numbers is				
	(a) 9600 (b) 9660 (c) 9690 (d) 9740		(a) 32 (b) 36 (c) 40 (d) 44				
72.	The largest 3-digit number which when divided by 10, 12	86.	Three numbers are in the ratio of 3:4:5 and their L.C.M.				
	and 15 leaves 5 as remainder in each ease, is		is 2400. Their H.C.F. is				
	(a) 985 (b) 975 (c) 945 (d) 965		(a) 40 (b) 20 (c) 120 (d) 80				
73.	The smallest 4-digit number which when divided by 20, 36 and 48 leaves 8 as remainder in each case, is	87.	The least number which is exactly divisible by the first four				
			even numbers is				
	(a) 1432 (b) 1448 (c) 1408 (d) 1484		(a) 12 (b) 24 (c) 36 (d) 48				
74.	If large square beds of equal size are to be made for planting	88.	The H.C.F. of two numbers is 23 and the other two factors of				
	vegetables on a plot of land 18 metres long and 15 metres		heir L.C.M. are 13 and 14. The larger of the two numbers is				
	wide, then what is the maximum possible length of each		(a) 322 (b) 299 (c) 346 (d) 278				
	bed?	89.	Two numbers are in the ratio of 5:8. If their H.C.F. is 7,				
	(a) 1 m (b) 3 m (c) 90 m (d) none of these	67.	then their L.C.M. is				
75.	In a morning walk, three persons step off together. Their						
	steps measure 80 cm, 85 cm and 90 cm respectively. What		(a) 140 (b) 180 (c) 240 (d) 280				
	is the minimum distance each should walk so that all can	90.	. Three tanks contain 72 litres, 90 litres and 144 litres of				
	cover the same distance in complete steps?		water. What is the largest measure that can measure all the				
	(a) 118.60 m (b) 120.20 m		different quantities exactly?				
	(c) 122.40 m (d) 124.60 m		(a) 91 (b) 121 (c) 241 (d) 181				
	** *** **** **** **** **** **** **** ****		- Same				





91.	Three cyclists run around a 60 km long circular path at the speeds of 10 km/hr, 12 km/hr and 15 km/hr respectively. After what time will they meet at the point from where they started their journey?			6	or the first a) 5 hours	time at the st	arting point? (b) 2 hours	they meet toge	ther
	(a) 15 hours	(b) 30 hours		- (c) 3 hours		$(d) \frac{5}{2}$ hours		
	(c) 60 hours	(d) 90 hours		105. T	Three numb	ers are in the	ratio of 3:4:	5 and their L.C	.M.
92.	Find the H.C.F. of 902, 1394 and 3321.					eir H.C.F. is:		6 12	
	(a) 23 (b) 27	(c) 37	(d) 41	(a) 120	(b) 60	(c) 80	(d) 40	
93.	What is the L.C.M. of two numbers if their H.C.F. is 2 and the product is 112?		106. 1	The least co	mmon multi	ple of 3, 4 and	9 is:		
	(a) 56 (b) 112	(c) 224	(d) none of these	(a) 36	(b) 12	(c) 27	(d) 45	
94.	The L.C.M. of two nur one of the numbers is 9				What will b a) 12	(b) 24	of 216, 288 and (c) 84	(d) 72	
	(a) 60 (b) 63	(c) 68	(d) 74	108. /	A milkman	has two can	of milk conta	ining 75 litres	and
95.	Find out the L.C.M. of 75, 90 and 125.						vely. What will		
	(a) 1850 (b) 2060 (c) 2150 (d) 2250				he largest v exactly?	essel that car	measure the m	tilk of the two	cans
96.	Four traffic signals glo	w at the intervals	of 5, 10, 15 and 20		a) 12 litre	,	(b) 18 litres		
	minutes. After what tir				c) 15 litre		(d) 10 litres		
	(a) 30 minutes	(b) 90 minute					of 23 which w ders 7, 10 and 1		
	(c) 60 minutes	(d) 120 minu		١.,	. 1240	(4) 2012	4.3 2244	(A 7/30	J
97.				a) 1240	(6) 3013	(c) 2364	(d) 7628	112221	
	20 leaves no reaminde (a) 60 (b) 40	(c) 120	(d) 90	r	Four clocks ring at the time interval of 6s, 8s, 12s and 18s respectively. If they ring together at 12 a.m., then how				
98.	The H.C.F. of two numbers is 12 and their difference is 12. Which of the following can be the numbers?			many times will they ring together within the time span of 6 minutes? (a) 6 times (b) 4 times (c) 7 times (d) 5 times					
	(a) 84, 96 (b) 66, 7	8 (c) 70, 82	(d) 62, 78	0.575			ers is 28 times		
99.	Find the least number which when divided by 30, 36, 56 and 63 leaves 8 as a remainder in each case.			sum of their L.C.M. and H.C.F. is 1740. If one number is 240, then what is the other number? (a) 420 (b) 460 (c) 500 (d) 380					er is
	(a) 2512 (b) 2520	(c) 2528	(d) 2536	100000000000000000000000000000000000000		e smallest nu	mber which is	divisible by 6.	. 10,
100.	Find the smallest num	ber which when	fivided by 3, 5, 12		12 and 18.	(4) 100	() 120		
		and 15 has in each case 2 as a remainder			a) 360	(b) 180	(c) 120	(d) 60	
	(a) 58 (b) 62	(c) 60	(d) 122	113.	The L.C.M.	of two prime	numbers is equ	ual to their	100
101.	Find the smallest number that is divisible by each one of 9, 12 and 15.			(a) Differe	nce	(b) Product (d) None of	the above		
	(a) 60 (b) 90	(c) 120	(d) 180						
102.	Find the greatest number that will divide 37, 56, 93 leaving remainder 1, 2 and 3 respectively.			114. From a basket of mangoes when counted in two's there was one extra, counted in three's there were two extra, counted in four's there were three extra, counted in five's there were					nted
	(a) 9 (b) 18	(c) 15	(d) 12	four extra, counted in six's there were fiv					
103.	The H.C.F. and L.C.M. of two numbers are 6 and 864 respectively. If one number is 96, find the other number.			,	were there	in the basket			
			1		(a) 119 What is the	(b) 110	(c) 111 ber which whe	(d) 126 n divides 3026	
	(a) 84 (b) 45	(c) 54	(d) 24				11 and 13 respe		aird
104.	Ram, Shyam and Mohan start to run together on a circular								
	track. They completes	a round of it in 75	, 50 and 30 minutes	((a) 15	(b) 30	(c) 45	(d) 60	