## H.C.F and L.C.M

Find the H.C.F. of 42, 63 and 140.

(b) 9(d) 7

(a) 14

(c) 21

(a) 2.7

(c)0.027

(b) 0.27

(d) 27

Find the L.C.M. of  $\frac{1}{3}, \frac{5}{6}, \frac{2}{9}$  and  $\frac{4}{27}$ 

2.	Find	I the H.C.F. of $a^2$	$b^4c^6$ ,	$b^3c^8a^4$ and $a^8b^6c^2$ .		(c)	$\frac{20}{3}$	(d)	$\frac{40}{27}$
	(a)	$a^4b^4c^4$	(b)	$a^2b^2c^2$	10.	The	greatest number th	nat ex	actly divides
	(c)	$a^2b^3c^2$	(d)	$a^2b^3c^3$	100		168, 210 and 315		
3.	Fino	the H.C.F. of 0.6	3, 1.	05 and 2.1		(a)	7	(b)	21
	(a)	0.21	(b)	0.021		(c)	441	(d)	4410
	(c)	21	(d)	2.1	11.				tudents among them
4.	Fino	I the H.C.F. of $2^3$ ,	$3^2, 4$	and 15.					can be distributed in dent gets the same
	(a)	$2^3$	(b)	$3^2$			•		number of pens and
	(c)	1	(d)	360		(a)	e number of pencil 91	(b)	910
5.	Find	I the H.C.F. of $2^2 \times$	$3^3 \times 5$	$5^5, 2^3 \times 3^2 \times 5^2 \times 7$ and		(c)	1001	(d)	1911
	$2^4 \times$	$3^4 \times 5 \times 7^2 \times 11 \text{ is:}$			12.	` /		` /	ength of a scale that
		$2^2 \times 3^2 \times 5$				can		ire ex	cactly the following
	(c)	$2^4 \times 3^4 \times 5$	(d)	$2^4 \times 3^4 \times 5^5 \times 7 \times 11$			30 cm	(b)	60 cm
6.	Fine	If the H.C.F. of $\frac{2}{3}$ ,	8 64	$\frac{10}{10}$		(c)	10 cm	(d)	1290 cm
••	1 1110	3	9'81	27	13.	Fino	d the greatest poss	sible	length of a scale to
	(a)	$\frac{2}{3}$	(b)	$\frac{2}{81}$			•		ng lengths, 20 feet, 13 s and 21 feet 3 inches?
		3		01		(a)	1 feet 6 inches	(b)	1 feet 3 inches
	(c)	$\frac{160}{3}$	(d)	$\frac{160}{81}$		(c)	9 inches	(d)	2 feet 4 inches
_		J			14.				mixture of milk and
7.		the L.C.M. of 24							tres and 496 litres
	` /	120	` /	240		•	measure the mixtu		t measurement which
	` /	360	` ′	480					7 litus
8.	Fino	If the L.C.M. of $3$ , $2$	2.7 aı	nd 0.09		(a)	1 litre	(b)	7 litre

(c) 31 litre

64 cm, 80 cm and 96 cm.

(d) 41 litre

**15.** Find the minimum possibel length of scale to measure exactly the following lengths.

	(a) (c)	`	o) 9.60 m d) 96 m	22.		smallest number that v 16 leaving a remainder	
16.	,	`	erent points are changing		(a)	46	(b) 50
100		•	ad 72 second. If all the		(c)	48	(d) 56
	ther		er at 9:10:24 hours, at changes take place	23.		the greatest number that 279 so as to leave the sa e.	
	(a)	9:12:25 hrs. (	o) 9:10:48 hrs.		(a)	30	(b) 36
	(c)	9:12:48 hrs. (	d) 9:12:40 hrs		(c)	46	(d) 56
17.	dire	ction to run around	same time in the same a circular stadium. A 252 seconds, B in 308	24.	num	numbers 2272 and 875 of aber N, giving the same ne digits of N is-	·
			conds, all starting at the		(a)	13	(b) 10
		e point. After what ti e starting point?	me will they meet again		(c)	14	(d) 11
	(a)	26 minutes 18 secon		25.		numbers 1305, 4665 at digit number N, giving	
	(b)	42 minutes 36 secon	nds		The	sum of the digits of N	is-
	(c)	45 minutes			(a) 4	1	(b) 5
	(d)	46 minutes 12 secon	nds		(c) 6	5	(d) 8
18.	direction direct	ction to run around a command speeds 3 km	same time in the same ircular stadium of length /h, 4 km/h and 6 km/h	26.		greatest number which leaving the same rema	
	_	ectively. After what t e starting point?	ime will they meet again		(a) 8	3	(b) 18
	(a)	16 h	(b) 12 h		(c) 2	28	(d) 38
	` ′	24 h	(d) 28 h	27.		greatest number which leaves remainders 2 an	•
19.			m which if 7 subtracted,		(a) 1	12	(b) 24
			4, 3, 5, 6, 8 and 10 is-		(c) 3	30	(d) 120
	(a)	113	(b) 120	28.	The	greatest number which	on dividing 989 and
	(c)	127	(d) 137		1327	7 leaves remainders 5 a	nd 7 respectively, is-
20.		smallest number fro	om which if 8 added is		(a) 8	3	(b) 53
	exac	etly divisible by 10, 1	2, 15 and 20 is-		(c) 2	24	(d) 32
	(a)	60	(b) 68	29.		least number, which whic	•
	(c)	52	(d) 38			16 leaves 7, 10 and ectively, is-	i II as remainders
21.			number that can be		(a) 1	•	(b) 235
		racted from 1936 so to 0, 15 the remainder is	that on being divided by 3.7 everytime?		(c) 2		(d) 475
	(a)	93	(b) 46	30.	` /	least number, which whic	
	(c)	76	(d) 39		and 8	8 leaves a remainders 3, 1	out divided by 9 leaves
	` /		. ,				

	no remainder, is-			(c) 8 and 6	(d) 8 and 10
	(a) 1677	(b) 1683	39.	The L.C.M of two num	
	(c) 2523	(d) 3363		H.C.F. If one of the numb	
31.	The least number, which wh			of H.C.F and L.C. M is 1 is-	150, the other number
	35 and 40 leaves remainded	er 14, 19, 29 and 34		(a) 215	(b) 220
	respectively, is-	(1) 1204		(c) 225	(d) 235
	(a) 1400	(b) 1394	40.	Product of two co-prime	. ,
22	(c) 1406	(d) 1388		L.C.M should be-	
32.	Find the largest number of divisible by 12, 16, 18, 24, 3.	-		· /	) 117
	(a) 99936	(b) 99963		(c) equal to HCF	
	(c) 99972	(d) 99982		(d) cannot bo calculated	
33.	Find the smallest number of divisible by 16, 24, 36 and 5	•	41.	The L.C.M of three diff Which of the following ca	
	(a) 10432	(b) 10368		(a) 8	(b) 12
	(c) 10064	(d) 10054		(c) 24	(d) 35
34.	Find largest four-digit number by 12, 18, 21 and 24 leaves		42.	The H.C.F. of two number following can never be the	
	each case, is-			(a) 24	(b) 48
	(a) 9582	(b) 9423		(c) 56	(d) 60
	(c) 9986	(d) 9982	43.	H.C.F. of 3240, 3600 and a	third number is 36 and
35.	The LCM of two numbers is If one of the numbers is 864			their LCM is $2^4 \times 3^5 \times 5^2$ ; is-	$\times$ 7 <sup>2</sup> . The third number
	(a) 72	(b) 64		(a) $2^2 \times 3^5 \times 7^2$	(b) $2^2 \times 5^3 \times 7^2$
	(c) 144	(d) 36		(c) $2^5 \times 5^2 \times 7^2$	(d) $2^3 \times 3^5 \times 7^2$
36.	The H.C.F. of two numbers	is 11 and their LCM			
	is 7700. If one of the number is:	r is 275, then the other	44.	The sum of two numbers 27. The nubers are:	is 216 and their HCF is
	(a) 279	(b)283		(a) 27, 189	(b) 108, 108
	(c) 308	(d) 318		(c) 200, 16	(d) 100, 116
37.	The L.C.M of two numbers is 5. If the sum of the num		45.	The ratio of two numbers 4. The numbers are-	is 3:4 and their HCF is
	difference is-			(a) 9, 12	(b) 12, 16
	(a) 10	(b) 46		(c) 16, 18	(d) 20, 24
	(c) 70	(d) 90	46.	The ratio of two numbers	is 4:5 and their HCF is
38.	The product of the L.C.M			2. The LCM is-	
	numbers is 24. The different 2. Find the numbers-	ice of two numbers is		(a) 20	(b) 10
	(a) 2 and 4	(b) 6 and 4		(c) 40	(d) 60
	(a) 2 unu 1	(o) o unu i			
l					

(a) 16, 24 (b) 8, 6 (c) 12, 18 (d) 12, 24 (c) 3 (d) 4  48. The ratio of two numbers is 3:2 and their LCM is 72. Their HCF is- (a) 24 (b) 3 (e) 6 (d) 12   ANSWERS     1
48. The ratio of two numbers is 3:2 and their LCM is 72. Their HCF is- (a) 24 (b) 3 (c) 6 (d) 12  ANSWERS   50. A number when divided by 10 leaves a remainder of when divided by 9 leaves a remainder of when divided by 8 leaves a remainder of 7,
72. Their HCF is- (a) 24 (b) 3 (c) 6 (d) 12  (a) 24 (b) 3 (b) 3 (c) 6 (d) 12    ANSWERS     1.   (d)   10.   (b)   19.   (c)   28.   (c)   37.   (a)   46.   (c)   (2519)   (d) 1679    2.   (c)   11.   (a)   20.   (c)   29.   (b)   38.   (b)   47.   (a)   (3.   (2.   (3.
(c) 2519 (d) 1679  ANSWERS  1. (d) 10. (b) 19. (c) 28. (c) 37. (a) 46. (c) 22. (c) 11. (a) 20. (c) 29. (b) 38. (b) 47. (a) 33. (a) 12. (a) 21. (d) 30. (b) 39. (c) 48. (a) 4. (c) 13. (b) 22. (b) 31. (b) 40. (b) 49. (c) 5. (a) 14. (c) 23. (c) 32. (a) 41. (d) 50. (c) 6. (b) 15. (b) 24. (b) 33. (b) 42. (d) 7. (c) 16. (c) 25. (a) 34. (a) 43. (a) 8. (d) 17. (d) 26. (b) 35. (c) 44. (a)
ANSWERS    1.   (d)   10.   (b)   19.   (c)   28.   (c)   37.   (a)   46.   (c)     2.   (c)   11.   (a)   20.   (c)   29.   (b)   38.   (b)   47.   (a)     3.   (a)   12.   (a)   21.   (d)   30.   (b)   39.   (c)   48.   (a)     4.   (c)   13.   (b)   22.   (b)   31.   (b)   40.   (b)   49.   (c)     5.   (a)   14.   (c)   23.   (c)   32.   (a)   41.   (d)   50.   (c)     6.   (b)   15.   (b)   24.   (b)   33.   (b)   42.   (d)     7.   (c)   16.   (c)   25.   (a)   34.   (a)   43.   (a)     8.   (d)   17.   (d)   26.   (b)   35.   (c)   44.   (a)
1.     (d)     10.     (b)     19.     (c)     28.     (c)     37.     (a)     46.     (c)       2.     (c)     11.     (a)     20.     (c)     29.     (b)     38.     (b)     47.     (a)       3.     (a)     12.     (a)     21.     (d)     30.     (b)     39.     (c)     48.     (a)       4.     (c)     13.     (b)     22.     (b)     31.     (b)     40.     (b)     49.     (c)       5.     (a)     14.     (c)     23.     (c)     32.     (a)     41.     (d)     50.     (c)       6.     (b)     15.     (b)     24.     (b)     33.     (b)     42.     (d)       7.     (c)     16.     (c)     25.     (a)     34.     (a)     43.     (a)       8.     (d)     17.     (d)     26.     (b)     35.     (c)     44.     (a)
2.       (c)       11.       (a)       20.       (c)       29.       (b)       38.       (b)       47.       (a)         3.       (a)       12.       (a)       21.       (d)       30.       (b)       39.       (c)       48.       (a)         4.       (c)       13.       (b)       22.       (b)       31.       (b)       40.       (b)       49.       (c)         5.       (a)       14.       (c)       23.       (c)       32.       (a)       41.       (d)       50.       (c)         6.       (b)       15.       (b)       24.       (b)       33.       (b)       42.       (d)         7.       (c)       16.       (c)       25.       (a)       34.       (a)       43.       (a)         8.       (d)       17.       (d)       26.       (b)       35.       (c)       44.       (a)
4.       (c)       13.       (b)       22.       (b)       31.       (b)       40.       (b)       49.       (c)         5.       (a)       14.       (c)       23.       (c)       32.       (a)       41.       (d)       50.       (c)         6.       (b)       15.       (b)       24.       (b)       33.       (b)       42.       (d)       (d)       7.       (c)       16.       (c)       25.       (a)       34.       (a)       43.       (a)       43.       (a)       44.       (a) </th
5.     (a)     14.     (c)     23.     (c)     32.     (a)     41.     (d)     50.     (c)       6.     (b)     15.     (b)     24.     (b)     33.     (b)     42.     (d)     (d)     43.     (a)       7.     (c)     16.     (c)     25.     (a)     34.     (a)     43.     (a)       8.     (d)     17.     (d)     26.     (b)     35.     (c)     44.     (a)
6. (b) 15. (b) 24. (b) 33. (b) 42. (d) 7. (c) 16. (c) 25. (a) 34. (a) 43. (a) 8. (d) 17. (d) 26. (b) 35. (c) 44. (a)
7. (c) 16. (c) 25. (a) 34. (a) 43. (a) 8. (d) 17. (d) 26. (b) 35. (c) 44. (a)
9. (c) 18. (b) 27. (d) 30. (c) 43. (b)