



## HCF and LCM, power, and exponents

Q1. The G.C.D. (a) 0.03	of 1.08, 0.36 and (b) 0.9	d 0.9 is: (c) 0.18	(d) 0.108
Q2. The H.C.F. of the two number		is 23 and the ot	her two factors of their L.C.M. are 13 and 14. The larger of
(a) 276	(b) 299	(c) 322	(d) 345
	mmence tolling with many times do	_	Il at intervals of 2, 4, 6, 8 10 and 12 seconds respectively. In her?
(a) 4	(b) 10	(c) 15	(d) 16
Q4. Three num	ber are in the ra	tio of 3 : 4 : 5 ar	nd their L.C.M. is 2400. Their H.C.F. is:
(a) 40	(b) 80	(c) 120	(d) 200
Q5. The produc	t of two numbe	rs is 1587. If the	H.C.F. of these numbers is 23, then the greater number is:
(a) 23	(b) 115	(c) 92	(d) None of these
Q6. The produc	t of two numbe	rs is 3468 and th	neir H.C.F. is 17. The number of such pairs is:
(a) 1	(b) 2	(c) 3 (d	) 4
round in 252 se		seconds and c ir	ne direction to run around a circular stadium. A completes an 198 seconds, all starting at the same point. After what
(a) 26 minutes a	and 18 seconds	(b)	42 minutes and 36 seconds
(c) 45 minutes		(d) 4	6 minutes and 12 seconds
	bers which are c two is 1073. The	•	other are such that the product of the first two is 551 and ee numbers is:
(a) 75	(b) 81	(c) 85	(d) 89
Q9. The LCM of	two numbers is	864 and their H	ICF is 144. If one of the number is 288, the other number is
(a) 576 Q10. The HCF a and 125, then,		(c) 432 numbers are 13	(d) 144 and 455 respectively. If one of the numbers lies between 75
(a) 78 Q11. The L.C.M	(b) 91 . of two number	c) 10) s is 48. The nun	04 (d) 117 onbers are in the ratio 2 : 3. Then sum of the number is:
(a) 28	(b) 32	(c) 40	(d) 64
Q12. If the sum	of two numbers	s is 55 and the H	I.C.F. and L.C.M. of these numbers are 5 and 120

respectively, then the sum of the reciprocals of the numbers is equal to:





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601	(b) $\frac{601}{55}$	(c) $\frac{11}{120}$	(d) $\frac{120}{11}$	
Q13. The greate	est number of fo	our digits which is	s divisible by 15, 2	25, 40 and 75 is:
(a) 9000	(b) 9400	(c) 9600	(d) 9800	
Q14. The greate	est number whi	ch on dividing 16	57 and 2037 leave	es remainders 6 and 5 respectively, is:
(a) 123	(b) 127	(c) 235	(d) 305	
Q15. Find the grasse.	reatest number	that will divide 4	3, 91 and 183 so	as to leave the same remainder in each
(a) 4	(b) 7	(c) 9	(d) 13	
Q16. The least r	multiple of 7, w	hich leaves a rem	ainder of 4, when	n divided by 6, 9, 15 and 18 is:
(a) 74 Q17. The least r is:	(b) 94 number which s	(c) 184 should be added t	• •	e sum is exactly divisible by 5, 6, 4 and 3
(a) 3	(b) 13	(c) 23	(d) 33	
Q18. The least r leaves no remai		when divided by 5	5, 6 , 7 and 8 leave	es a remainder 3, but when divided by 9
(a) 1677	(b) 1683	(c) 2523	(d) 3363	
	` '	` '	(-,	
Q19. The smalle				le 12, 16, 18, 21 and 28 is:
Q19. The smalle (a) 1008	est number whi	ch when diminish		le 12, 16, 18, 21 and 28 is:
(a) 1008	est number whi (b) 1015	ch when diminish	ed by 7, is divisib	le 12, 16, 18, 21 and 28 is:
(a) 1008 Q20. If (-3) <sup>m+1</sup> ×	est number whi (b) 1015	ch when diminish (c) 1022 hen the value of r	ed by 7, is divisib	le 12, 16, 18, 21 and 28 is:
(a) 1008 Q20. If (-3) <sup>m+1</sup> × (a) 5 Q21. Find the m	est number whi (b) 1015 $(-3)^5 = (-3)^7$ , t (b) 7 nultiplicative inv	ch when diminish  (c) 1022  hen the value of r  (c) 1  verse of 5 <sup>-3</sup> .	(d) 1032 m is: (d) 3	le 12, 16, 18, 21 and 28 is:
(a) 1008 Q20. If (-3) <sup>m+1</sup> × (a) 5 Q21. Find the m (a) 5 <sup>3</sup>	est number whi (b) 1015 $(-3)^5 = (-3)^7$ , t (b) 7 nultiplicative inv (b) $\frac{1}{5}$	ch when diminish  (c) 1022  hen the value of r  (c) 1  verse of 5 <sup>-3</sup> .  (c) 5 <sup>2</sup>	ned by 7, is divisib (d) 1032 m is:	
(a) 1008 Q20. If (-3) <sup>m+1</sup> × (a) 5 Q21. Find the m (a) 5 <sup>3</sup> Q22. Which of	(b) 1015 ((-3) <sup>5</sup> = (-3) <sup>7</sup> , t (b) 7 (b) ½ the following	ch when diminish  (c) 1022  hen the value of r  (c) 1  verse of 5 <sup>-3</sup> .  (c) 5 <sup>2</sup>	(d) 1032 m is: (d) 3 (d) 5 <sup>-2</sup> 1 / 5) <sup>-9</sup> / (4 / 5) <sup>-9</sup>	
(a) 1008 Q20. If (-3) <sup>m+1</sup> × (a) 5 Q21. Find the m (a) 5 <sup>3</sup> Q22. Which of (a) (4/5) <sup>18</sup>	est number whi (b) 1015 $(-3)^5 = (-3)^7$ , to the following of the foll	ch when diminish  (c) 1022  hen the value of r  (c) 1  verse of 5 <sup>-3</sup> .  (c) 5 <sup>2</sup> is the value of (4	(d) 1032 m is: (d) 3 (d) 5 <sup>-2</sup> 1 / 5) <sup>-9</sup> / (4 / 5) <sup>-9</sup>	?
(a) 1008  Q20. If (-3) <sup>m+1</sup> × (a) 5  Q21. Find the m (a) 5 <sup>3</sup> Q22. Which of (a) (4/5) <sup>18</sup> Q23. Which of (a) 1.275 * 10 <sup>-1</sup>	est number white (b) 1015 $(-3)^5 = (-3)^7$ , to (b) 7  nultiplicative inverse (b) $\frac{1}{2}$ the following (b) 4/5  the following (b) 1.27	ch when diminish  (c) 1022  hen the value of r  (c) 1  verse of 5 <sup>-3</sup> .  (c) 5 <sup>2</sup> is the value of (4  (c) 1	(d) 1032 m is: (d) 3 (d) 5 <sup>-2</sup> 1 / 5) <sup>-9</sup> / (4 / 5) <sup>-9</sup> (d) (5/4) <sup>9</sup> Form of 0.000012	?
(a) 1008 Q20. If (-3) <sup>m+1</sup> × (a) 5 Q21. Find the m (a) 5 <sup>3</sup> Q22. Which of (a) (4/5) <sup>18</sup> Q23. Which of (a) 1.275 * 10 <sup>-1</sup> Q24. [(1 / 2) <sup>-1</sup> +	est number whi (b) 1015 (-3) <sup>5</sup> = (-3) <sup>7</sup> , t (b) 7 nultiplicative inv (b) $\frac{1}{2}$ the following inv (b) 4/5 the following inv (b) 4/5 (b) 1.27 (c) 2/3 ) <sup>2</sup> - (3/4 (d) 81/169	ch when diminish  (c) 1022  hen the value of $r$ (c) 1  verse of $5^{-3}$ .  (c) $5^2$ is the value of (4  (c) 1  is the standard f $r^2 5 * 10^5$ (c) $r^2 5 * 10^{-2}$ is equal to:	(d) 1032 m is: (d) 3 (d) 5 <sup>-2</sup> 1 / 5) <sup>-9</sup> / (4 / 5) <sup>-9</sup> (d) (5/4) <sup>9</sup> Form of 0.000012	? 275? (d) 127.5 * 10 <sup>7</sup>





**Answer key** 

1	С	6	В	11	С	16	D	21	Α
2	С	7	D	12	С	17	С	22	С
3	D	8	С	13	С	18	В	23	Α
4	A	9	С	14	В	19	В	24	В
5	D	10	В	15	Α	20	С	25	В